The Strait of Georgia Ichthyoplankton Survey, 1981. Ichthyoplankton. Cruises 9, 10, and 11 (May 11-15, May 25-29 and June 8-14).

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Rapport statistique canadien des sciences halieutiques et aquatiques

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THE STRAIT OF GEORGIA ICHTHYOPLANKTON SURVEY, 1981. ICHTHYOPLANKTON. CRUISES 9, 10, AND 11 (MAY 11-15, MAY 25-29 AND JUNE 8-14).

by

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ABSTRACT

Mason, J. C., O. D. Kennedy, and A. C. Phillips. 1982. The Strait of Georgia Ichthyoplankton Survey, 1981. Ichthyoplankton. Cruises 9, 10, and 11 (May 11-15, May 25-29, and June 8-14). Can. Data Rep. Fish. Aquat. Sci. No. 363: iii + 245 p.

This report contains a compilation of corrected catches of juvenile fishes, fish eggs and fish larvae by station, in computer printed format, for the last three out of nine standardized cruises. These cruises were five to nine days in duration and were conducted on the M.V. CALIGUS.

The survey encompassed the entire length of the Strait of Georgia and Malaspina Strait.

Oblique tows were made using 0.25 m^2 Bongos equipped with 351 micron Nitex nets of modified SCOR design. All sampling gear was black to minimize potential avoidance and resulting catch bias. The tow procedure generally followed that established by CALCOFI.

Key words: Ichthyoplankton, Strait of Georgia, Malaspina Strait.

RESUME

Mason, J. C., O. D. Kennedy, and A. C. Phillips. 1982. The Strait of Georgia Ichthyoplankton Survey, 1981. Ichthyoplankton. Cruises 9, 10, and 11 (May 11-15, May 25-29, and June 8-14). Can. Data Rep. Fish. Aquat. Sci. No. 363: iii + 245 p.

Le présent rapport contient une compilation par station sous forme d'un imprimé d'ordinateur, des prises corrigées de poissons juvéniles, d'oeufs et de larves de poisson pour les trois dérnieres de neuf expéditions normalisées du CALIGUS, d'une durée de 5 à 9 jours.

Ce levé porte sur toute la longueur des détroits de Géorgie et de Malaspina.

Des traits obliques ont été effectués à l'aide d'engins de type bongo de 0,25 m^2 munis de filets Nitex de 351 microns de conception CRSO modifiée. Tout l'équipement d'échantillonnage est de couleur noire afin de minimiser l'évitement potentiel qui se traduit par un facteur d'inexactitude pour les prises. La méthode de chalutage suit généralement celle établie pour le programme CALCOFI.

Mots-clés: ichthyoplancton, détroit de Géorgie, détroit de Malaspina.

ORIENTATION AND METHODOLOGY

The Strait of Georgia Ichthyoplankton Survey (1981) was conducted by staff of the Groundfish Program of the Pacific Biological Station, Nanaimo (Fisheries Research Branch). The survey involved eleven cruises of which two were northern cruises covering the Strait of Georgia and Malaspina Strait from north of the Ballenas Islands to north of Texada Island. The remaining nine cruises covered the central and southern Strait of Georgia in standardized cruises. This present report concerns all oblique tows taken in the three cruises of the southern Strait of Georgia in 1981.

The 1981 survey was a routine survey to provide distribution patterns of fish eggs and larvae and to give an estimate of total biomass of resident hake and walleye pollock stocks. A total of 80 stations were occupied every two weeks (Fig. 1). The stations are listed by grid number, location, (latitude and longitude) and depth in Table 1.

All tows were made using 0.25^2 Bongos equipped with 351 micron Nitex nets of modified SCOR design, and General Oceanics center-mounted flow meters. A 90 kg cylindrical weight was suspended from the yoke of the Bongos. All sampling gear was black to minimize potential avoidance and resulting catch bias.

The tow procedure for oblique tows generally followed that established by CALCOFI: vessel speed of I m/s gear descent at a cable pay-out rate of 50 m/min, and gear ascent at a cable recovery rate of 20 m/min. Tows were made to within 20 m of the sea floor at all stations.

The recovered nets were thoroughly washed down with a high-pressure deck hose and the resulting catches were preserved in 5% buffered seawater formaldehyde for processing ashore. In the laboratory, fish, fish eggs, and larvae, euphausiids and other selected invertebrate groups were extracted from one-net catches. The entire catches from the other net were retained in a raw reference collection for future use.

The following data base consists of corrected catches of juvenile fishes, fish eggs and fish larvae, identified to the lowest possible systematic categories considering the present state of knowledge of Canadian Pacific ichthyoplankton.

Sampling station locations.

Grid	Location		Depth (m)
85.35	49° 22.8'N	124° 10.3'W	350
84.31	49° 25.6'N	124° 05.6'W	345
84.28	49° 28.0'N	124° 03.1'W	340
82.36	49° 20.3'N	124° 07.4'W	384
82.33	49° 22.8'N	124° 04.8'W	250
81.30	49° 24.7'N	124° 01.0'W	400
81.27	49° 27.2'N	123° 58.4'W	210
79.36	49° 18.2'N	124° 04.0'W	293
79.34	49° 20.3'N	124° 01.9'W	403
78.32	49° 21.4'N	123° 58.9'W	232
78.29	49° 23.9'N	123° 56.3'W	338
78.25	49° 27.2'N	123° 52.9'W	210
76.34	49° 18.6'N	123° 58.1'W	412
76.27	49° 24.4'N	123° 52.1'W	192
75.30	49° 21.4'N	123° 53.5'W	425
74.36	49° 15.8'N	123° 57.3'W	315
74.33	49° 18.3'N	123° 54.7'W	418
73.24	49° 25.2'N	123° 45.8'W	174
72.30	49° 19.7'N	123° 49.6'W	403
72.27	49° 22.2'N	123° 47.0'W	147
71.36	49° 14.2'N	123° 53.5'W	200
71.33	49° 16.6'N	123° 50.9'W	403
69.29	49° 18.8'N	123° 45.0'W	320
69.26	49° 21.3'N	123° 42.9'W	210
68.35	49° 13.3'N	123° 48.4'W	195
68.32	49° 15.8'N	123° 46.3'W	399
68.23	49° 23.2'N	123° 38.6'W	186
67.27	49° 19.4'N	123° 40.7'W	195
65.33	49° 13.3'N	123° 43.3'W	394
65.30	49° 15.8'N	123° 40.8'W	378
64.25	49° 19.3'N	123° 35.2'W	175
63.28	49° 16.3'N	123° 36.5'W	281
62.35	49° 10.0'N	123° 41.2'W	165
62.31	49° 13.3'N	123° 37.8'W	375
62.22	49° 20.7'N	123° 30.1'W	210
61.25	49° 17.7'N	123° 31.4'W	201
60.28	49° 14.6'N	123° 32.7'W	351
59.31	49° 11.6'N	123° 34.0'W	340
59.23	49° 18.2'N	123° 27.2'W	145
58.35	49° 07.7'N	123° 36.2'W	220
57.26	49° 14.6'N	123° 27.2'W	298
56.29	49° 11.6'N	123° 28.5'W	329
56.23	49° 16.5'N	123° 23.4'W	250
56.20	49° 19.0'N	123° 20.8'W	220
55.38	49° 03.6'N	123° 34.9'W	195
55.32	49° 08.5'N	123° 29.8'W	332
54.26	49° 12.9'N	123° 23.4'W	285

Sampling station locations (cont'd).

Grid	Location		Depth (m)
53.35	49° 04.9'N	123° 29.8'W	330
53.29	49° 09.9'N	123° 24.7'W	235
53.23	49° 14.9'N	123° 19.6'W	175
52.38	49° 01.9'N	123° 31.1'W	240
51.32	49° 06.3'N	123° 24.7'W	265
51.26	49° 11.3'N	123° 19.6'W	192
50.35	49° 03.3'N	123° 26.0'W	310
49.38	49° 00.2'N	123° 27.3'W	240
49.29	49° 07.7'N	123° 19.7'W	143
48.33	49° 03.8'N	123° 21.8'W	230
46.39	49° 57.7'N	123° 24.4'W	230
46.36	49° 00.2'N	123° 21.8'W	250
44.33	49° 01.6'N	123° 16.7'W	130
43.39	48° 55.6'N	123° 21.0'W	195
43.37	48° 57.7'N	123° 18.9'W	200
41.35	48° 58.2'N	123° 14.7'W	155
40.39	48° 54.4'N	123° 16.8'W	192
40.37	48° 56.0'N	123° 15.1'W	160
37.39	48° 52.3'N	123° 13.4'W	210
37.34	48° 56.8'N	123° 08.7'W	112
36.37	48° 53.8'N	123° 10.0'W	135
34.39	48° 50.6'N	123° 09.6'W	210
33.33	48° 55.4'N	123° 02.8'W	127
32.40	48° 49.1'N	123° 07.5'W	146
31.38	48° 49.7'N	123° 05.5'W	200
31.36	48° 51.8'N	123° 02.9'W	175
29.38	48° 48.6'N	123° 02.5'W	183
29.32	48° 54.0'N	122° 56.9'W	120
28.34	48° 51.7'N	122° 58.9'W	215
28.37	48° 49.3'N	122° 59.9'W	240
26.38	48° 47.7'N	122° 58.2'W	210
26.34	48° 50.7'N	122° 54.8'W	192
25.36	48° 48.5'N	122° 55.3'W	210

TABLE:	1	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	6 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	1	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.6 C	VOL. FILTERED:	272 M3
POSITION:	49 15.8 N 123 57.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	74 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	316 M	TIME OF TOW:	0825 HR	ALIQUOT:	
		DEPTH OF TOW:	316 M	S.H.F.:	11.62

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	28.	28.0	102.9	325.4
MERLUCCIUS PRODUCTUS	69.	69.0	253.7	801.8
THERAGRA CHALCOGRAMMA	3.	3.0	11.0	34.9
TOTAL	100.	100.0	367.6	1162.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.8	3.7	11.6
LEUROGLOSSUS STILBIUS	15.	12.4	55.1	174.3
MERLUCCIUS PRODUCTUS	90.	74.4	330.9	1045.8
THERAGRA CHALCOGRAMMA	3.	2.5	11.0	34.9
SCORPAENIDAE(FAMILY)	12.	9.9	44.1	139.4
TOTAL	121.	100.0	444.9	1406.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	100.0	7.4	23.2
TOTAL	2.	100.0	7.4	23.2

TABLE:	2	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	5 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	2	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.4 C	VOL. FILTERED:	229 M3
POSITION:	49 18.2 N 124 4.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	79 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	273 M	TIME OF TOW:	0940 HR	ALIQUOT:	
		DEPTH OF TOW:	273 M	S.H.F.:	11.95

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	25.	35.7	109.2	298.8
MERLUCCIUS PRODUCTUS	39.	55.7	170.3	466.0
THERAGRA CHALCOGRAMMA	6.	8.6	26.2	71.7
TOTAL	70.	100.0	305.7	836.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.1	4.4	11.9
LEUROGLOSSUS STILBIUS	14.	15.7	61.1	167.3
MERLUCCIUS PRODUCTUS	64.	71.9	279.5	764.8
THERAGRA CHALCOGRAMMA	1.	1.1	4.4	11.9
SCORPAENIDAE(FAMILY)	9.	10.1	39.3	107.5
TOTAL	89.	100.0	388.6	1063.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	2.	100.0	8.7	23.9
TOTAL	2.	100.0	8.7	23.9

TABLE:	3	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	3	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.6 C	VOL. FILTERED:	340 M3
POSITION:	49 20.3 N 124 7.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	82 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	385 M	TIME OF TOW:	1025 HR	ALIQUOT:	
		DEPTH OF TOW:	382 M	S.H.F.:	11.24

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	1.1	2.9	11.2
LEUROGLOSSUS STILBIUS	21.	22.6	61.8	236.0
MERLUCCIUS PRODUCTUS	57.	61.3	167.6	640.7
THERAGRA CHALCOGRAMMA	14.	15.1	41.2	157.4
TOTAL	93.	100.0	273.5	1045.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	1.6	8.8	33.7
LEUROGLOSSUS STILBIUS	46.	25.0	135.3	517.0
MERLUCCIUS PRODUCTUS	122.	66.3	358.8	1371.3
THERAGRA CHALCOGRAMMA	1.	0.5	2.9	11.2
BROSMOPHYCIS MARGINATA	1.	0.5	2.9	11.2
SCORPAENIDAE(FAMILY)	10.	5.4	29.4	112.4
RHAMPHOCOTTUS RICHARDSONI	1.	0.5	2.9	11.2
TOTAL	184.	100.0	541.2	2068.2

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	100.0	2.9	11.2
TOTAL	1.	100.0	2.9	11.2

TABLE:	4	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	4	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.1 C	VOL. FILTERED:	293 M3
POSITION:	49 22.8 N 124 10.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	85 . 35	BT/XBT NUMBER:	1	PLANKTON CONC.:	
BOTTOM DEPTH:	350 M	TIME OF TOW:	1117 HR	ALIQUOT:	
		DEPTH OF TOW:	347 M	S.H.F.:	11.83

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	27.	25.2	92.2	319.4
MERLUCCIUS PRODUCTUS	69.	64.5	235.5	816.3
THERAGRA CHALCOGRAMMA	11.	10.3	37.5	130.1
TOTAL	107.	100.0	365.2	1265.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	4.	2.2	13.7	47.3
LEUROGLOSSUS STILBIUS	31.	17.4	105.8	366.7
MERLUCCIUS PRODUCTUS	138.	77.5	471.0	1632.5
GOBIIDAE(FAMILY)	2.	1.1	6.8	23.7
SCORPAENIDAE(FAMILY)	2.	1.1	6.8	23.7
LYOPSETTA EXILIS	1.	0.6	3.4	11.8
TOTAL	178.	100.0	607.5	2105.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	100.0	3.4	11.8
TOTAL	1.	100.0	3.4	11.8

TABLE:	5	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	5	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:		VOL. FILTERED:	229 M3
POSITION:	49 22.8 N 124 4.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	82 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	245 M	TIME OF TOW:	1216 HR	ALIQUOT:	
		DEPTH OF TOW:	229 M	S.H.F.:	9.99

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	28.	18.4	122.3	279.7
MERLUCCIUS PRODUCTUS	112.	73.7	489.1	1118.9
THERAGRA CHALCOGRAMMA	12.	7.9	52.4	119.9
TOTAL	152.	100.0	663.8	1518.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	1.3	8.7	20.0
LEUROGLOSSUS STILBIUS	37.	24.0	161.6	369.6
MERLUCCIUS PRODUCTUS	108.	70.1	471.6	1078.9
THERAGRA CHALCOGRAMMA	2.	1.3	8.7	20.0
SCORPAENIDAE(FAMILY)	5.	3.2	21.8	50.0
TOTAL	154.	100.0	672.5	1538.5

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	4.4	10.0
TOTAL	1.	100.0	4.4	10.0

TABLE:	6	WIND DIRECTION:	0 DEG
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS
SAMPLE NO.:	6	WAVE HEIGHT:	
DATE:	11/ 5/81	SWELL HEIGHT:	0 M
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C
POSITION:	49 20.3 N 124 1.9 W	STD NUMBER:	
GRID POSITION:	79 . 34	BT/XBT NUMBER:	2
BOTTOM DEPTH:	404 M	TIME OF TOW:	1250 HR
		DEPTH OF TOW:	394 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	358 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	11.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	44.	45.8	122.9	484.4
MERLUCCIUS PRODUCTUS	44.	45.8	122.9	484.4
THERAGRA CHALCOGRAMMA	8.	8.3	22.3	88.1
TOTAL	96.	100.0	268.2	1057.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.5	2.8	11.0
LEUROGLOSSUS STILBIUS	50.	24.9	139.7	550.5
MERLUCCIUS PRODUCTUS	134.	66.7	374.3	1475.3
THERAGRA CHALCOGRAMMA	5.	2.5	14.0	55.1
GOBIIDAE(FAMILY)	1.	0.5	2.8	11.0
SCORPAENIDAE(FAMILY)	10.	5.0	27.9	110.1
TOTAL	201.	100.0	561.5	2213.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	50.0	8.4	33.0
STENOBRACHIUS LEUCOPSARUS	1.	16.7	2.8	11.0
LYCODAPUS MANDIBULARIS	2.	33.3	5.6	22.0
TOTAL	6.	100.0	16.8	66.1

TABLE:	7	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	7	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.6 C	VOL. FILTERED:	244 M3
POSITION:	49 21.4 N 123 58.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	255 M	TIME OF TOW:	1335 HR	ALIQUOT:	
		DEPTH OF TOW:	245 M	S.H.F.:	10.05

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	0.5	4.1	10.1
LEUROGLOSSUS STILBIUS	30.	16.1	123.0	301.5
MERLUCCIUS PRODUCTUS	130.	69.9	532.8	1306.5
THERAGRA CHALCOGRAMMA	25.	13.4	102.5	251.3
TOTAL	186.	100.0	762.3	1869.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	36.	28.3	147.5	361.8
MERLUCCIUS PRODUCTUS	80.	63.0	327.9	804.0
THERAGRA CHALCOGRAMMA	6.	4.7	24.6	60.3
GOBIIDAE(FAMILY)	1.	0.8	4.1	10.1
SCORPAENIDAE(FAMILY)	4.	3.1	16.4	40.2
TOTAL	127.	100.0	520.5	1276.4

TABLE:	8	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	8	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	300 M3
POSITION:	49 23.9 N 123 56.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 29	BT/XBT NUMBER:	3	PLANKTON CONC.:	
BOTTOM DEPTH:	338 M	TIME OF TOW:	1423 HR	ALIQUOT:	
		DEPTH OF TOW:	316 M	S.H.F.:	10.54

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	30.	11.5	100.0	316.2
MERLUCCIUS PRODUCTUS	200.	76.3	666.7	2108.0
THERAGRA CHALCOGRAMMA	32.	12.2	106.7	337.3
TOTAL	262.	100.0	873.3	2761.5

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	66.	29.7	220.0	695.6
MERLUCCIUS PRODUCTUS	144.	64.9	480.0	1517.8
THERAGRA CHALCOGRAMMA	2.	0.9	6.7	21.1
SCORPAENIDAE(FAMILY)	9.	4.1	30.0	94.9
CYCLOPTERIDAE(FAMILY)	1.	0.5	3.3	10.5
TOTAL	222.	100.0	740.0	2339.9

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.3	10.5
TOTAL	1.	100.0	3.3	10.5

TABLE:	9	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	9	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.0 C	VOL. FILTERED:	331 M3
POSITION:	49 24.7 N 124 1.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	81 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	398 M	TIME OF TOW:	1509 HR	ALIQUOT:	
		DEPTH OF TOW:	388 M	S.H.F.:	11.72

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	35.	25.0	105.7	410.2
MERLUCCIUS PRODUCTUS	83.	59.3	250.8	972.8
THERAGRA CHALCOGRAMMA	21.	15.0	63.4	246.1
LYOPSETTA EXILIS	1.	0.7	3.0	11.7
TOTAL	140.	100.0	423.0	1640.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	1.0	6.0	23.4
LEUROGLOSSUS STILBIUS	49.	24.9	148.0	574.3
MERLUCCIUS PRODUCTUS	131.	66.5	395.8	1535.3
THERAGRA CHALCOGRAMMA	3.	1.5	9.1	35.2
SCORPAENIDAE(FAMILY)	11.	5.6	33.2	128.9
INOPSETTA ISCHYRA	1.	0.5	3.0	11.7
TOTAL	197.	100.0	595.2	2308.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	3.0	11.7
NECTOLIPARIS PELAGICUS	1.	50.0	3.0	11.7
TOTAL	2.	100.0	6.0	23.4

TABLE:	10	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	10	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.1 C	VOL. FILTERED:	297 M3
POSITION:	49 25.6 N 124 5.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	84 . 31	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	330 M	TIME OF TOW:	1555 HR	ALIQUOT:	
		DEPTH OF TOW:	317 M	S.H.F.:	10.67

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	29.	25.2	97.6	309.4
MERLUCCIUS PRODUCTUS	70.	60.9	235.7	746.9
THERAGRA CHALCOGRAMMA	16.	13.9	53.9	170.7
TOTAL	115.	100.0	387.2	1227.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	1.0	6.7	21.3
LEUROGLOSSUS STILBIUS	39.	18.6	131.3	416.1
MERLUCCIUS PRODUCTUS	156.	74.3	525.3	1664.5
THERAGRA CHALCOGRAMMA	3.	1.4	10.1	32.0
SCORPAENIDAE(FAMILY)	9.	4.3	30.3	96.0
INOPSETTA ISCHYRA	1.	0.5	3.4	10.7
TOTAL	210.	100.0	707.1	2240.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	2.	100.0	6.7	21.3
TOTAL	2.	100.0	6.7	21.3

TABLE:	11	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	11	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	300 M3
POSITION:	49 28.0 N 124 3.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	84 . 28	BT/XBT NUMBER:	4	PLANKTON CONC.:	
BOTTOM DEPTH:	340 M	TIME OF TOW:	1705 HR	ALIQUOT:	
		DEPTH OF TOW:	330 M	S.H.F.:	11.02

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	16.	32.0	53.3	176.3
MERLUCCIUS PRODUCTUS	28.	56.0	93.3	308.6
THERAGRA CHALCOGRAMMA	6.	12.0	20.0	66.1
TOTAL	50.	100.0	166.7	551.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	1.2	10.0	33.1
LEUROGLOSSUS STILBIUS	46.	18.2	153.3	506.9
MERLUCCIUS PRODUCTUS	190.	75.1	633.3	2093.8
THERAGRA CHALCOGRAMMA	2.	0.8	6.7	22.0
SCORPAENIDAE(FAMILY)	11.	4.3	36.7	121.2
CYCLOPTERIDAE(FAMILY)	1.	0.4	3.3	11.0
TOTAL	253.	100.0	843.3	2788.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.3	11.0
TOTAL	1.	100.0	3.3	11.0

TABLE:	12	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	12	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	181 M3
POSITION:	49 27.2 N 123 58.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	81 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	195 M	TIME OF TOW:	1751 HR	ALIQUOT:	
		DEPTH OF TOW:	192 M	S.H.F.:	10.62

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	18.2	11.0	21.2
MERLUCCIUS PRODUCTUS	5.	45.5	27.6	53.1
THERAGRA CHALCOGRAMMA	3.	27.3	16.6	31.9
LYOPSETTA EXILIS	1.	9.1	5.5	10.6
TOTAL	11.	100.0	60.8	116.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	21.	42.0	116.0	223.0
MERLUCCIUS PRODUCTUS	23.	46.0	127.1	244.3
THERAGRA CHALCOGRAMMA	2.	4.0	11.0	21.2
SCORPAENIDAE(FAMILY)	4.	8.0	22.1	42.5
TOTAL	50.	100.0	276.2	531.0

TABLE:	13	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	13	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.4 C	VOL. FILTERED:	196 M3
POSITION:	49 27.2 N 123 52.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	211 M	TIME OF TOW:	0510 HR	ALIQUOT:	
		DEPTH OF TOW:	201 M	S.H.F.:	10.28

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES				
LEUROGLOSSUS STILBIUS	1.	6.7	5.1	10.3
MERLUCCIUS PRODUCTUS	5.	33.3	25.5	51.4
THERAGRA CHALCOGRAMMA	7.	46.7	35.7	72.0
	2.	13.3	10.2	20.6
TOTAL	15.	100.0	76.5	154.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	47.	47.0	239.8	483.2
MERLUCCIUS PRODUCTUS	37.	37.0	188.8	380.4
THERAGRA CHALCOGRAMMA	3.	3.0	15.3	30.8
GOBIIDAE(FAMILY)	2.	2.0	10.2	20.6
SCORPAENIDAE(FAMILY)	11.	11.0	56.1	113.1
TOTAL	100.	100.0	510.2	1028.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	5.1	10.3
TOTAL	1.	100.0	5.1	10.3

TABLE:	14	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	14	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.7 C	VOL. FILTERED:	181 M3
POSITION:	49 24.4 N 123 52.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	76 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	0547 HR	ALIQUOT:	
		DEPTH OF TOW:	183 M	S.H.F.:	10.09

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	14.8	44.2	80.7
MERLUCCIUS PRODUCTUS	34.	63.0	187.8	343.1
THERAGRA CHALCOGRAMMA	12.	22.2	66.3	121.1
TOTAL	54.	100.0	298.3	544.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.7	5.5	10.1
LEUROGLOSSUS STILBIUS	23.	38.3	127.1	232.1
MERLUCCIUS PRODUCTUS	28.	46.7	154.7	282.5
THERAGRA CHALCOGRAMMA	3.	5.0	16.6	30.3
GOBIIDAE(FAMILY)	1.	1.7	5.5	10.1
SCORPAENIDAE(FAMILY)	4.	6.7	22.1	40.4
TOTAL	60.	100.0	331.5	605.4

TABLE:	15	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	15	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.8 C	VOL. FILTERED:	384 M3
POSITION:	49 21.4 N 123 53.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	75 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	432 M	TIME OF TOW:	0627 HR	ALIQUOT:	
		DEPTH OF TOW:	412 M	S.H.F.:	10.72

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	47.	20.7	122.4	503.8
MERLUCCIUS PRODUCTUS	165.	72.7	429.7	1768.8
THERAGRA CHALCOGRAMMA	15.	6.6	39.1	160.8
TOTAL	227.	100.0	591.1	2433.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	0.9	5.2	21.4
LEUROGLOSSUS STILBIUS	50.	23.4	130.2	536.0
MERLUCCIUS PRODUCTUS	154.	72.0	401.0	1650.9
MICROGADUS PROXIMUS	1.	0.5	2.6	10.7
THERAGRA CHALCOGRAMMA	1.	0.5	2.6	10.7
GOBIIDAE(FAMILY)	1.	0.5	2.6	10.7
SCORPAENIDAE(FAMILY)	5.	2.3	13.0	53.6
TOTAL	214.	100.0	557.3	2294.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	33.3	2.6	10.7
LYCODAPUS MANDIBULARIS	1.	33.3	2.6	10.7
NECTOLIPARIS PELAGICUS	1.	33.3	2.6	10.7
TOTAL	3.	100.0	7.8	32.2

TABLE:	16	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	16	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.9 C	VOL. FILTERED:	317 M3
POSITION:	49 18.6 N 123 58.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	76 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	407 M	TIME OF TOW:	0730 HR	ALIQUOT:	
		DEPTH OF TOW:	397 M	S.H.F.:	12.54

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	34.	33.7	107.3	426.4
MERLUCCIUS PRODUCTUS	62.	61.4	195.6	777.5
THERAGRA CHALCOGRAMMA	5.	5.0	15.8	62.7
TOTAL	101.	100.0	318.6	1266.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	55.	30.2	173.5	689.7
MERLUCCIUS PRODUCTUS	114.	62.6	359.6	1429.6
THERAGRA CHALCOGRAMMA	4.	2.2	12.6	50.2
SCORPAENIDAE(FAMILY)	9.	4.9	28.4	112.9
TOTAL	182.	100.0	574.1	2282.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	50.0	6.3	25.1
LYCODAPUS MANDIBULARIS	1.	25.0	3.2	12.5
NECTOLIPARIS PELAGICUS	1.	25.0	3.2	12.5
TOTAL	4.	100.0	12.6	50.2

TABLE: 17
CRUISE: SG 81- 9
SAMPLE NO.: 17
DATE: 12/ 5/81
VESSEL: CALIGUS
POSITION: 49 18.3 N 123 54.7 W
GRID POSITION: 74 . 33
BOTTOM DEPTH: 410 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 2 MPS
WAVE HEIGHT:
SWELL HEIGHT:
SURFACE TEMP: 11.8 C
STD NUMBER:
BT/XBT NUMBER: 5
TIME OF TOW: 0805 HR
DEPTH OF TOW: 379 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 356 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 10.66

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	36.	37.1	101.1	383.8
MERLUCCIUS PRODUCTUS	55.	56.7	154.5	586.3
THERAGRA CHALCOGRAMMA	5.	5.2	14.0	53.3
LYOPSETTA EXILIS	1.	1.0	2.8	10.7
TOTAL	97.	100.0	272.5	1034.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	50.	25.8	140.4	533.0
MERLUCCIUS PRODUCTUS	129.	66.5	362.4	1375.1
THERAGRA CHALCOGRAMMA	3.	1.5	8.4	32.0
GOBIIDAE(FAMILY)	1.	0.5	2.8	10.7
SCORPAENIDAE(FAMILY)	11.	5.7	30.9	117.3
TOTAL	194.	100.0	544.9	2068.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	2.8	10.7
TOTAL	1.	100.0	2.8	10.7

TABLE:	18	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	18	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.2 C	VOL. FILTERED:	318 M3
POSITION:	48 16.6 N 123 50.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	71 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	405 M	TIME OF TOW:	0908 HR	ALIQUOT:	
		DEPTH OF TOW:	402 M	S.H.F.:	12.64

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	29.	21.2	91.2	366.6
MERLUCCIUS PRODUCTUS	95.	69.3	298.7	1200.8
THERAGRA CHALCOGRAMMA	13.	9.5	40.9	164.3
TOTAL	137.	100.0	430.8	1731.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	1.5	9.4	37.9
LEUROGLOSSUS STILBIUS	35.	17.2	110.1	442.4
MERLUCCIUS PRODUCTUS	157.	77.3	493.7	1984.5
THERAGRA CHALCOGRAMMA	1.	0.5	3.1	12.6
GOBIIDAE(FAMILY)	1.	0.5	3.1	12.6
SCORPAENIDAE(FAMILY)	6.	3.0	18.9	75.8
TOTAL	203.	100.0	638.4	2565.9

TABLE:	19	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	19	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	187 M3
POSITION:	49 14.2 N 123 53.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	71 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	200 M	TIME OF TOW:	0956 HR	ALIQUOT:	
		DEPTH OF TOW:	197 M	S.H.F.:	10.52

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	6.	13.6	32.1	63.1
MERLUCCIUS PRODUCTUS	35.	79.5	187.2	368.2
THERAGRA CHALCOGRAMMA	2.	4.5	10.7	21.0
MICROSTOMUS PACIFICUS	1.	2.3	5.3	10.5
TOTAL	44.	100.0	235.3	462.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	24.	38.1	128.3	252.5
MERLUCCIUS PRODUCTUS	22.	34.9	117.6	231.4
MICROGADUS PROXIMUS	1.	1.6	5.3	10.5
THERAGRA CHALCOGRAMMA	1.	1.6	5.3	10.5
GOBIIDAE(FAMILY)	1.	1.6	5.3	10.5
SCORPAENIDAE(FAMILY)	12.	19.0	64.2	126.2
AGONIDAE(FAMILY)	1.	1.6	5.3	10.5
INOPSETTA ISCHYRA	1.	1.6	5.3	10.5
TOTAL	63.	100.0	336.9	662.8

TABLE:	20	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	20	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.1 C	VOL. FILTERED:	174 M3
POSITION:	49 13.3 N 123 48.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	193 M	TIME OF TOW:	1041 HR	ALIQUOT:	
		DEPTH OF TOW:	189 M	S.H.F.:	10.88

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	10.	15.4	57.5	108.8
MERLUCCIUS PRODUCTUS	53.	81.5	304.6	576.6
THERAGRA CHALCOGRAMMA	2.	3.1	11.5	21.8
TOTAL	65.	100.0	373.6	707.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.5	5.7	10.9
LEUROGLOSSUS STILBIUS	21.	31.8	120.7	228.5
MERLUCCIUS PRODUCTUS	22.	33.3	126.4	239.4
THERAGRA CHALCOGRAMMA	2.	3.0	11.5	21.8
SCORPAENIDAE(FAMILY)	18.	27.3	103.4	195.8
INOPSETTA ISCHYRA	1.	1.5	5.7	10.9
REINHARDTIUS HIPPOGLOSSOIDES	1.	1.5	5.7	10.9
TOTAL	66.	100.0	379.3	718.1

TABLE:	21	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	21	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	327 M3
POSITION:	49 15.8 N 123 46.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 32	BT/XBT NUMBER:	6	PLANKTON CONC.:	
BOTTOM DEPTH:	400 M	TIME OF TOW:	1122 HR	ALIQUOT:	
		DEPTH OF TOW:	387 M	S.H.F.:	11.82

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	20.	5.3	61.2	236.4
MERLUCCIUS PRODUCTUS	350.	93.6	1070.3	4137.0
THERAGRA CHALCOGRAMMA	4.	1.1	12.2	47.3
TOTAL	374.	100.0	1143.7	4420.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	43.	17.7	131.5	508.3
MERLUCCIUS PRODUCTUS	191.	78.6	584.1	2257.6
THERAGRA CHALCOGRAMMA	4.	1.6	12.2	47.3
SCORPAENIDAE(FAMILY)	4.	1.6	12.2	47.3
LYOPSETTA EXILIS	1.	0.4	3.1	11.8
TOTAL	243.	100.0	743.1	2872.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	50.0	6.1	23.6
LYCODAPUS MANDIBULARIS	1.	25.0	3.1	11.8
NECTOLIPARIS PELAGICUS	1.	25.0	3.1	11.8
TOTAL	4.	100.0	12.2	47.3

TABLE:	22	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	22	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.7 C	VOL. FILTERED:	285 M3
POSITION:	49 18.8 N 123 45.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	69 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	331 M	TIME OF TOW:	1216 HR	ALIQUOT:	
		DEPTH OF TOW:	331 M	S.H.F.:	11.64

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	27.	7.9	94.7	314.3
MERLUCCIUS PRODUCTUS	296.	86.8	1038.6	3445.4
THERAGRA CHALCOGRAMMA	16.	4.7	56.1	186.2
LYOPSETTA EXILIS	2.	0.6	7.0	23.3
TOTAL	341.	100.0	1196.5	3969.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	9.	15.8	31.6	104.8
MERLUCCIUS PRODUCTUS	42.	73.7	147.4	488.9
THERAGRA CHALCOGRAMMA	3.	5.3	10.5	34.9
SCORPAENIDAE(FAMILY)	3.	5.3	10.5	34.9
TOTAL	57.	100.0	200.0	663.5

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	3.5	11.6
TOTAL	1.	100.0	3.5	11.6

TABLE:	23	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	23	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.2 C	VOL. FILTERED:	363 M3
POSITION:	49 19.7 N 123 49.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	72 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	395 M	TIME OF TOW:	1308 HR	ALIQUOT:	
		DEPTH OF TOW:	369 M	S.H.F.:	10.18

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	28.	8.4	77.1	285.0
MERLUCCIUS PRODUCTUS	295.	88.1	812.7	3003.1
THERAGRA CHALCOGRAMMA	12.	3.6	33.1	122.2
TOTAL	335.	100.0	922.9	3410.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.4	2.8	10.2
LEUROGLOSSUS STILBIUS	67.	24.5	184.6	682.1
MERLUCCIUS PRODUCTUS	199.	72.6	548.2	2025.8
THERAGRA CHALCOGRAMMA	1.	0.4	2.8	10.2
SCORPAENIDAE(FAMILY)	6.	2.2	16.5	61.1
TOTAL	274.	100.0	754.8	2789.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	100.0	5.5	20.4
TOTAL	2.	100.0	5.5	20.4

TABLE:	24	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	24	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.9 C	VOL. FILTERED:	195 M3
POSITION:	49 22.2 N 123 47.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	72 . 27	BT/XBT NUMBER:	7	PLANKTON CONC.:	
BOTTOM DEPTH:	204 M	TIME OF TOW:	1348 HR	ALIQUOT:	
		DEPTH OF TOW:	193 M	S.H.F.:	9.90

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	4.3	5.1	9.9
LEUROGLOSSUS STILBIUS	2.	8.7	10.3	19.8
MERLUCCIUS PRODUCTUS	15.	65.2	76.9	148.5
THERAGRA CHALCOGRAMMA	5.	21.7	25.6	49.5
TOTAL	23.	100.0	117.9	227.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	4.	11.1	20.5	39.6
LEUROGLOSSUS STILBIUS	9.	25.0	46.2	89.1
MERLUCCIUS PRODUCTUS	11.	30.6	56.4	108.9
THERAGRA CHALCOGRAMMA	3.	8.3	15.4	29.7
GOBIIDAE(FAMILY)	1.	2.8	5.1	9.9
SCORPAENIDAE(FAMILY)	8.	22.2	41.0	79.2
TOTAL	36.	100.0	184.6	356.4

TABLE:	25				
CRUISE:	SG 81- 9	WIND DIRECTION:	90 DEG		
SAMPLE NO.:	25	WIND VELOCITY:	3 MPS	TOW SPEED:	1 MPS
DATE:	12/ 5/81	WAVE HEIGHT:		TYPE OF TOW:	OBLIQUE
VESSEL:	CALIGUS	SWELL HEIGHT:	0 M	GEAR TYPE:	BONGO .25 M2
POSITION:	49 25.2 N 123 45.8 W	SURFACE TEMP:	14.1 C	MESH SIZE:	.351 MM
GRID POSITION:	73 . 24	STD NUMBER:		VOL. FILTERED:	148 M3
BOTTOM DEPTH:	167 M	BT/XBT NUMBER:		DISP. VOLUME:	
		TIME OF TOW:	1425 HR	PLANKTON CONC.:	
		DEPTH OF TOW:	159 M	ALIQUOT:	
				S.H.F.:	10.74

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	100.0	13.5	21.5
TOTAL	2.	100.0	13.5	21.5

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	31.	59.6	209.5	332.9
MERLUCCIUS PRODUCTUS	10.	19.2	67.6	107.4
SCORPAENIDAE(FAMILY)	11.	21.2	74.3	118.1
TOTAL	52.	100.0	351.4	558.5

TABLE:	26	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	26	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	157 M3
POSITION:	49 23.2 N 123 38.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 23	BT/XBT NUMBER:	8	PLANKTON CONC.:	
BOTTOM DEPTH:	173 M	TIME OF TOW:	1520 HR	ALIQUOT:	
		DEPTH OF TOW:	162 M	S.H.F.:	10.34

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	5.	100.0	31.8	51.7
TOTAL	5.	100.0	31.8	51.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	2.9	6.4	10.3
THALEICHTHYS PACIFICUS	1.	2.9	6.4	10.3
LEUROGLOSSUS STILBIUS	18.	51.4	114.6	186.1
MERLUCCIUS PRODUCTUS	7.	20.0	44.6	72.4
THERAGRA CHALCOGRAMMA	1.	2.9	6.4	10.3
SCORPAENIDAE(FAMILY)	7.	20.0	44.6	72.4
TOTAL	35.	100.0	222.9	361.9

TABLE:	27	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	27	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.3 C	VOL. FILTERED:	187 M3
POSITION:	49 21.3 N 123 42.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	69 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	1608 HR	ALIQUOT:	
		DEPTH OF TOW:	178 M	S.H.F.:	9.53

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	18.2	10.7	19.1
MERLUCCIUS PRODUCTUS	8.	72.7	42.8	76.2
THERAGRA CHALCOGRAMMA	1.	9.1	5.3	9.5
TOTAL	11.	100.0	58.8	104.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.9	5.3	9.5
LEUROGLOSSUS STILBIUS	21.	39.6	112.3	200.1
MERLUCCIUS PRODUCTUS	19.	35.8	101.6	181.1
THERAGRA CHALCOGRAMMA	1.	1.9	5.3	9.5
RONQUILUS JORDANI	1.	1.9	5.3	9.5
GOBIIDAE(FAMILY)	2.	3.8	10.7	19.1
SCORPAENIDAE(FAMILY)	7.	13.2	37.4	66.7
CYCLOPTERIDAE(FAMILY)	1.	1.9	5.3	9.5
TOTAL	53.	100.0	283.4	505.1

TABLE:	28	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	28	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.9 C	VOL. FILTERED:	129 M3
POSITION:	49 19.4 N 123 40.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	67 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	138 M	TIME OF TOW:	1641 HR	ALIQUOT:	
		DEPTH OF TOW:	133 M	S.H.F.:	10.29

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THERAGRA CHALCOGRAMMA	1.	100.0	7.8	10.3
TOTAL	1.	100.0	7.8	10.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	3.4	7.8	10.3
LEUROGLOSSUS STILBIUS	7.	24.1	54.3	72.0
MERLUCCIUS PRODUCTUS	12.	41.4	93.0	123.5
THERAGRA CHALCOGRAMMA	2.	6.9	15.5	20.6
SCORPAENIDAE(FAMILY)	6.	20.7	46.5	61.7
INOPSETTA ISCHYRA	1.	3.4	7.8	10.3
TOTAL	29.	100.0	224.8	298.4

TABLE:	29	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	29	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.2 C	VOL. FILTERED:	177 M3
POSITION:	49 19.4 N 123 35.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	64 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	177 M	TIME OF TOW:	1730 HR	ALIQUOT:	
		DEPTH OF TOW:	172 M	S.H.F.:	9.73

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	1.	50.0	5.6	9.7
LYOPSETTA EXILIS	1.	50.0	5.6	9.7
TOTAL	2.	100.0	11.3	19.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	22.	56.4	124.3	214.1
MERLUCCIUS PRODUCTUS	8.	20.5	45.2	77.8
THERAGRA CHALCOGRAMMA	1.	2.6	5.6	9.7
GOBIIDAE(FAMILY)	1.	2.6	5.6	9.7
SCORPAENIDAE(FAMILY)	7.	17.9	39.5	68.1
TOTAL	39.	100.0	220.3	379.5

TABLE:	30	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	30	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.1 C	VOL. FILTERED:	188 M3
POSITION:	49 20.7 N 123 30.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 22	BT/XBT NUMBER:	9	PLANKTON CONC.:	
BOTTOM DEPTH:	194 M	TIME OF TOW:	1811 HR	ALIQUOT:	
		DEPTH OF TOW:	184 M	S.H.F.:	9.81

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	5.3	5.3	9.8
MERLUCCIUS PRODUCTUS	18.	94.7	95.7	176.6
TOTAL	19.	100.0	101.1	186.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	100.	73.5	531.9	981.0
MERLUCCIUS PRODUCTUS	27.	19.9	143.6	264.9
THERAGRA CHALCOGRAMMA	3.	2.2	16.0	29.4
SCORPAENIDAE(FAMILY)	6.	4.4	31.9	58.9
TOTAL	136.	100.0	723.4	1334.2

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
GILBERTIDIA SIGALUTES	1.	100.0	5.3	9.8
TOTAL	1.	100.0	5.3	9.8

TABLE:	31	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	31	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	151 M3
POSITION:	49 18.2 N 123 27.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	59 . 23	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	140 M	TIME OF TOW:	0510 HR	ALIQUOT:	
		DEPTH OF TOW:	130 M	S.H.F.:	8.61

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	33.3	6.6	8.6
MERLUCCIUS PRODUCTUS	2.	66.7	13.2	17.2
TOTAL	3.	100.0	19.9	25.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	53.	89.8	351.0	456.3
MERLUCCIUS PRODUCTUS	4.	6.8	26.5	34.4
THERAGRA CHALCOGRAMMA	1.	1.7	6.6	8.6
COTTIDAE(FAMILY)	1.	1.7	6.6	8.6
TOTAL	59.	100.0	390.7	508.0

TABLE:	32	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	32	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.0 C	VOL. FILTERED:	172 M3
POSITION:	49 17.7 N 123 31.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	61 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	0552 HR	ALIQUOT:	
		DEPTH OF TOW:	175 M	S.H.F.:	10.16

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	3.	13.6	17.4	30.5
LEUROGLOSSUS STILBIUS	5.	22.7	29.1	50.8
MERLUCCIUS PRODUCTUS	14.	63.6	81.4	142.2
TOTAL	22.	100.0	127.9	223.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	43.	69.4	250.0	436.9
MERLUCCIUS PRODUCTUS	13.	21.0	75.6	132.1
SCORPAENIDAE(FAMILY)	6.	9.7	34.9	61.0
TOTAL	62.	100.0	360.5	629.9

TABLE:	33	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	33	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	218 M3
POSITION:	49 16.3 N 123 36.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	63 . 28	BT/XBT NUMBER:	10	PLANKTON CONC.:	
BOTTOM DEPTH:	266 M	TIME OF TOW:	0640 HR	ALIQUOT:	
		DEPTH OF TOW:	256 M	S.H.F.:	11.75

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	6.	1.1	27.5	70.5
MERLUCCIUS PRODUCTUS	559.	98.4	2564.2	6568.3
THERAGRA CHALCOGRAMMA	3.	0.5	13.8	35.3
TOTAL	568.	100.0	2605.5	6674.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	2.6	13.8	35.3
LEUROGLOSSUS STILBIUS	16.	14.0	73.4	188.0
MERLUCCIUS PRODUCTUS	89.	78.1	408.3	1045.8
SCORPAENIDAE(FAMILY)	5.	4.4	22.9	58.8
INOPSETTA ISCHYRA	1.	0.9	4.6	11.8
TOTAL	114.	100.0	522.9	1339.5

TABLE:	34	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	34	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	340 M3
POSITION:	49 15.8 N 123 40.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	65 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	383 M	TIME OF TOW:	0722 HR	ALIQUOT:	
		DEPTH OF TOW:	373 M	S.H.F.:	10.98

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	25.	4.3	73.5	274.5
MERLUCCIUS PRODUCTUS	544.	94.4	1600.0	5973.1
THERAGRA CHALCOGRAMMA	7.	1.2	20.6	76.9
TOTAL	576.	100.0	1694.1	6324.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	20.	9.5	58.8	219.6
MERLUCCIUS PRODUCTUS	183.	86.7	538.2	2009.3
THERAGRA CHALCOGRAMMA	4.	1.9	11.8	43.9
SCORPAENIDAE(FAMILY)	4.	1.9	11.8	43.9
TOTAL	211.	100.0	620.6	2316.8

TABLE:	35	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	35	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.1 C	VOL. FILTERED:	315 M3
POSITION:	49 13.3 N 123 37.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 31	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	374 M	TIME OF TOW:	0810 HR	ALIQUOT:	
		DEPTH OF TOW:	356 M	S.H.F.:	11.31

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	0.2	3.2	11.3
LEUROGLOSSUS STILBIUS	15.	3.2	47.6	169.7
MERLUCCIUS PRODUCTUS	450.	95.5	1428.6	5089.5
THERAGRA CHALCOGRAMMA	4.	0.8	12.7	45.2
LYOPSETTA EXILIS	1.	0.2	3.2	11.3
TOTAL	471.	100.0	1495.2	5327.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.4	3.2	11.3
LEUROGLOSSUS STILBIUS	20.	8.1	63.5	226.2
MERLUCCIUS PRODUCTUS	211.	85.4	669.8	2386.4
THERAGRA CHALCOGRAMMA	3.	1.2	9.5	33.9
RONQUILUS JORDANI	1.	0.4	3.2	11.3
GOBIIDAE(FAMILY)	1.	0.4	3.2	11.3
SCORPAENIDAE(FAMILY)	10.	4.0	31.7	113.1
TOTAL	247.	100.0	784.1	2793.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	100.0	6.3	22.6
TOTAL	2.	100.0	6.3	22.6

TABLE:	36	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	36	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.9 C	VOL. FILTERED:	338 M3
POSITION:	49 13.3 N 123 43.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	65 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	392 M	TIME OF TOW:	0907 HR	ALIQUOT:	
		DEPTH OF TOW:	382 M	S.H.F.:	11.30

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	16.	4.9	47.3	180.8
MERLUCCIUS PRODUCTUS	302.	91.8	893.5	3412.6
THERAGRA CHALCOGRAMMA	11.	3.3	32.5	124.3
TOTAL	329.	100.0	973.4	3717.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	37.	17.2	109.5	418.1
MERLUCCIUS PRODUCTUS	176.	81.9	520.7	1988.8
THERAGRA CHALCOGRAMMA	1.	0.5	3.0	11.3
SCORPAENIDAE(FAMILY)	1.	0.5	3.0	11.3
TOTAL	215.	100.0	636.1	2429.5

TABLE:	37	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	37	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.5 C	VOL. FILTERED:	139 M3
POSITION:	49 10.0 N 123 41.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	142 M	TIME OF TOW:	1004 HR	ALIQUOT:	
		DEPTH OF TOW:	132 M	S.H.F.:	9.49

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	5.	83.3	36.0	47.5
THERAGRA CHALCOGRAMMA	1.	16.7	7.2	9.5
TOTAL	6.	100.0	43.2	56.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	20.	74.1	143.9	189.8
MERLUCCIUS PRODUCTUS	4.	14.8	28.8	38.0
THERAGRA CHALCOGRAMMA	2.	7.4	14.4	19.0
SCORPAENIDAE(FAMILY)	1.	3.7	7.2	9.5
TOTAL	27.	100.0	194.2	256.2

TABLE:	38	WIND DIRECTION:		TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:		TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	38	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	149 M3
POSITION:	49 7.7 N 123 36.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	58 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	165 M	TIME OF TOW:	1055 HR	ALIQUOT:	
		DEPTH OF TOW:	153 M	S.H.F.:	10.30

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	3.7	6.7	10.3
MERLUCCIUS PRODUCTUS	24.	88.9	161.1	247.2
THERAGRA CHALCOGRAMMA	1.	3.7	6.7	10.3
PLEURONICHTHYS COENOSUS	1.	3.7	6.7	10.3
TOTAL	27.	100.0	181.2	278.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.8	6.7	10.3
LEUROGLOSSUS STILBIUS	24.	42.9	161.1	247.2
MERLUCCIUS PRODUCTUS	15.	26.8	100.7	154.5
THERAGRA CHALCOGRAMMA	2.	3.6	13.4	20.6
SCORPAENIDAE(FAMILY)	14.	25.0	94.0	144.2
TOTAL	56.	100.0	375.8	576.8

TABLE:	39	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	5 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	39	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	268 M3
POSITION:	49 8.5 N 123 29.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	55 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	335 M	TIME OF TOW:	1143 HR	ALIQUOT:	
		DEPTH OF TOW:	332 M	S.H.F.:	12.37

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	29.	9.0	108.2	358.7
MERLUCCIUS PRODUCTUS	270.	84.1	1007.5	3339.9
THERAGRA CHALCOGRAMMA	22.	6.9	82.1	272.1
TOTAL	321.	100.0	1197.8	3970.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.5	3.7	12.4
LEUROGLOSSUS STILBIUS	27.	12.8	100.7	334.0
MERLUCCIUS PRODUCTUS	171.	81.0	638.1	2115.3
THERAGRA CHALCOGRAMMA	2.	0.9	7.5	24.7
SCORPAENIDAE(FAMILY)	10.	4.7	37.3	123.7
TOTAL	211.	100.0	787.3	2610.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.7	12.4
TOTAL	1.	100.0	3.7	12.4

TABLE:	40	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	5 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	40	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	283 M3
POSITION:	49 11.6 N 123 34.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	59 . 31	BT/XBT NUMBER:	11	PLANKTON CONC.:	
BOTTOM DEPTH:	355 M	TIME OF TOW:	1243 HR	ALIQUOT:	
		DEPTH OF TOW:	352 M	S.H.F.:	12.43

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
EGGS				
LEUROGLOSSUS STILBIUS	10.	3.2	35.3	124.3
MERLUCCIUS PRODUCTUS	270.	86.3	954.1	3356.1
THERAGRA CHALCOGRAMMA	33.	10.5	116.6	410.2
TOTAL	313.	100.0	1106.0	3890.6

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LARVAE				
LEUROGLOSSUS STILBIUS	38.	17.0	134.3	472.3
MERLUCCIUS PRODUCTUS	171.	76.3	604.2	2125.5
THERAGRA CHALCOGRAMMA	2.	0.9	7.1	24.9
SCORPAENIDAE(FAMILY)	13.	5.8	45.9	161.6
TOTAL	224.	100.0	791.5	2784.3

TABLE:	41	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	41	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	351 M3
POSITION:	49 14.2 N 123 33.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	60 . 28	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	352 M	TIME OF TOW:	1322 HR	ALIQUOT:	
		DEPTH OF TOW:	338 M	S.H.F.:	9.64

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	21.	5.5	59.8	202.4
MERLUCCIUS PRODUCTUS	347.	90.4	988.6	3345.1
THERAGRA CHALCOGRAMMA	15.	3.9	42.7	144.6
LYOPSETTA EXILIS	1.	0.3	2.8	9.6
TOTAL	384.	100.0	1094.0	3701.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	53.	18.3	151.0	510.9
MERLUCCIUS PRODUCTUS	230.	79.6	655.3	2217.2
THERAGRA CHALCOGRAMMA	3.	1.0	8.5	28.9
SCORPAENIDAE(FAMILY)	2.	0.7	5.7	19.3
LYOPSETTA EXILIS	1.	0.3	2.8	9.6
TOTAL	289.	100.0	823.4	2786.0

TABLE:	42	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	42	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.1 C	VOL. FILTERED:	286 M3
POSITION:	49 11.6 N 123 28.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	320 M	TIME OF TOW:	1419 HR	ALIQUOT:	
		DEPTH OF TOW:	292 M	S.H.F.:	10.21

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	32.	7.8	111.9	326.7
MERLUCCIUS PRODUCTUS	347.	84.2	1213.3	3542.9
THERAGRA CHALCOGRAMMA	33.	8.0	115.4	336.9
TOTAL	412.	100.0	1440.6	4206.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	5.	2.2	17.5	51.0
LEUROGLOSSUS STILBIUS	40.	17.9	139.9	408.4
MERLUCCIUS PRODUCTUS	173.	77.2	604.9	1766.3
THERAGRA CHALCOGRAMMA	2.	0.9	7.0	20.4
SCORPAENIDAE(FAMILY)	4.	1.8	14.0	40.8
TOTAL	224.	100.0	783.2	2287.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.5	10.2
TOTAL	1.	100.0	3.5	10.2

TABLE:	43	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	43	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.1 C	VOL. FILTERED:	221 M3
POSITION:	49 9.9 N 123 24.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 29	BT/XBT NUMBER:	12	PLANKTON CONC.:	
BOTTOM DEPTH:	230 M	TIME OF TOW:	1520 HR	ALIQUOT:	
		DEPTH OF TOW:	227 M	S.H.F.:	10.30

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	2.4	36.2	82.4
MERLUCCIUS PRODUCTUS	311.	91.7	1407.2	3203.3
THERAGRA CHALCOGRAMMA	20.	5.9	90.5	206.0
TOTAL	339.	100.0	1533.9	3491.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	32.	29.1	144.8	329.6
MERLUCCIUS PRODUCTUS	68.	61.8	307.7	700.4
THERAGRA CHALCOGRAMMA	6.	5.5	27.1	61.8
GOBIIDAE(FAMILY)	1.	0.9	4.5	10.3
SCORPAENIDAE(FAMILY)	2.	1.8	9.0	20.6
LYOPSETTA EXILIS	1.	0.9	4.5	10.3
TOTAL	110.	100.0	497.7	1133.0

TABLE:	44	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	44	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	162 M3
POSITION:	49 14.9 N 123 19.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 23	BT/XBT NUMBER:	13	PLANKTON CONC.:	
BOTTOM DEPTH:	197 M	TIME OF TOW:	1623 HR	ALIQUOT:	
		DEPTH OF TOW:	189 M	S.H.F.:	11.68

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	5.	26.3	30.9	58.4
MERLUCCIUS PRODUCTUS	13.	68.4	80.2	151.8
MICROSTOMUS PACIFICUS	1.	5.3	6.2	11.7
TOTAL	19.	100.0	117.3	221.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	41.	73.2	253.1	478.9
MERLUCCIUS PRODUCTUS	15.	26.8	92.6	175.2
TOTAL	56.	100.0	345.7	654.1

TABLE:	45	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	45	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.7 C	VOL. FILTERED:	193 M3
POSITION:	49 19.0 N 123 20.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 20	BT/XBT NUMBER:	14	PLANKTON CONC.:	
BOTTOM DEPTH:	204 M	TIME OF TOW:	0630 HR	ALIQUOT:	
		DEPTH OF TOW:	193 M	S.H.F.:	9.99

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	5.	17.2	25.9	50.0
LEUROGLOSSUS STILBIUS	8.	27.6	41.5	79.9
MERLUCCIUS PRODUCTUS	16.	55.2	82.9	159.8
TOTAL	29.	100.0	150.3	289.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.4	5.2	10.0
LEUROGLOSSUS STILBIUS	29.	42.0	150.3	289.7
MERLUCCIUS PRODUCTUS	37.	53.6	191.7	369.6
SCORPAENIDAE(FAMILY)	2.	2.9	10.4	20.0
TOTAL	69.	100.0	357.5	689.3

TABLE:	46	WIND DIRECTION:	67 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	46	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	207 M3
POSITION:	49 16.5 N 123 23.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 23	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	215 M	TIME OF TOW:	0711 HR	ALIQUOT:	
		DEPTH OF TOW:	203 M	S.H.F.:	9.81

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	9.	9.5	43.5	88.3
LEUROGLOSSUS STILBIUS	11.	11.6	53.1	107.9
MERLUCCIUS PRODUCTUS	75.	78.9	362.3	735.8
TOTAL	95.	100.0	458.9	932.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	30.	42.9	144.9	294.3
MERLUCCIUS PRODUCTUS	32.	45.7	154.6	313.9
THERAGRA CHALCOGRAMMA	3.	4.3	14.5	29.4
GOBIIDAE(FAMILY)	1.	1.4	4.8	9.8
SCORPAENIDAE(FAMILY)	2.	2.9	9.7	19.6
INOPSETTA ISCHYRA	1.	1.4	4.8	9.8
PLEURONICHTHYS COENOSUS	1.	1.4	4.8	9.8
TOTAL	70.	100.0	338.2	686.7

TABLE:	47	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	47	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.7 C	VOL. FILTERED:	242 M3
POSITION:	49 14.6 N 123 27.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	57 . 26	BT/XBT NUMBER:	15	PLANKTON CONC.:	
BOTTOM DEPTH:	285 M	TIME OF TOW:	0753 HR	ALIQUOT:	
		DEPTH OF TOW:	272 M	S.H.F.:	11.26

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	0.4	8.3	22.5
LEUROGLOSSUS STILBIUS	27.	5.5	111.6	304.0
MERLUCCIUS PRODUCTUS	457.	92.7	1888.4	5145.8
THERAGRA CHALCOGRAMMA	6.	1.2	24.8	67.6
MICROSTOMUS PACIFICUS	1.	0.2	4.1	11.3
TOTAL	493.	100.0	2037.2	5551.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	0.6	4.1	11.3
LEUROGLOSSUS STILBIUS	27.	17.0	111.6	304.0
MERLUCCIUS PRODUCTUS	128.	80.5	528.9	1441.3
THERAGRA CHALCOGRAMMA	2.	1.3	8.3	22.5
CYCLOPTERIDAE(FAMILY)	1.	0.6	4.1	11.3
TOTAL	159.	100.0	657.0	1790.3

TABLE:	48	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	48	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.1 C	VOL. FILTERED:	222 M3
POSITION:	49 12.9 N 123 23.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	54 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	280 M	TIME OF TOW:	0847 HR	ALIQUOT:	
		DEPTH OF TOW:	270 M	S.H.F.:	12.18

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES				
LEUROGLOSSUS STILBIUS	13.	3.0	58.6	158.3
MERLUCCIUS PRODUCTUS	12.	2.8	54.1	146.2
THERAGRA CHALCOGRAMMA	399.	91.9	1797.3	4859.8
	10.	2.3	45.0	121.8
TOTAL	434.	100.0	1955.0	5286.1

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	0.6	4.5	12.2
LEUROGLOSSUS STILBIUS	40.	24.1	180.2	487.2
MERLUCCIUS PRODUCTUS	121.	72.9	545.0	1473.8
SCORPAENIDAE(FAMILY)	4.	2.4	18.0	48.7
TOTAL	166.	100.0	747.7	2021.9

TABLE:	49	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	49	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	153 M3
POSITION:	49 11.3 N 123 19.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	51 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	169 M	TIME OF TOW:	0930 HR	ALIQUOT:	
		DEPTH OF TOW:	164 M	S.H.F.:	10.69

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES				
LEUROGLOSSUS STILBIUS	1.	2.1	6.5	10.7
MERLUCCIUS PRODUCTUS	1.	2.1	6.5	10.7
THERAGRA CHALCOGRAMMA	38.	80.9	248.4	406.2
	7.	14.9	45.8	74.8
TOTAL	47.	100.0	307.2	502.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	9.7	19.6	32.1
LEUROGLOSSUS STILBIUS	18.	58.1	117.6	192.4
MERLUCCIUS PRODUCTUS	6.	19.4	39.2	64.1
GOBIIDAE(FAMILY)	1.	3.2	6.5	10.7
SCORPAENIDAE(FAMILY)	3.	9.7	19.6	32.1
TOTAL	31.	100.0	202.6	331.4

TABLE:	50	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	50	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.2 C	VOL. FILTERED:	133 M3
POSITION:	49 7.7 N 123 19.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	49 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	146 M	TIME OF TOW:	1012 HR	ALIQUOT:	
		DEPTH OF TOW:	135 M	S.H.F.:	10.13

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	14.3	7.5	10.1
MERLUCCIUS PRODUCTUS	6.	85.7	45.1	60.8
TOTAL	7.	100.0	52.6	70.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	25.	78.1	188.0	253.3
MERLUCCIUS PRODUCTUS	3.	9.4	22.6	30.4
THERAGRA CHALCOGRAMMA	1.	3.1	7.5	10.1
SCORPAENIDAE(FAMILY)	3.	9.4	22.6	30.4
TOTAL	32.	100.0	240.6	324.2

TABLE:	51	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	51	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	212 M3
POSITION:	49 6.3 N 123 24.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	51 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	258 M	TIME OF TOW:	1100 HR	ALIQUOT:	
		DEPTH OF TOW:	255 M	S.H.F.:	12.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	14.	6.1	66.0	168.1
MERLUCCIUS PRODUCTUS	185.	80.8	872.6	2221.9
THERAGRA CHALCOGRAMMA	30.	13.1	141.5	360.3
TOTAL	229.	100.0	1080.2	2750.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	32.	21.9	150.9	384.3
MERLUCCIUS PRODUCTUS	97.	66.4	457.5	1165.0
THERAGRA CHALCOGRAMMA	5.	3.4	23.6	60.1
SCORPAENIDAE(FAMILY)	11.	7.5	51.9	132.1
LYOPSETTA EXILIS	1.	0.7	4.7	12.0
TOTAL	146.	100.0	688.7	1753.5

TABLE:	52	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	52	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	273 M3
POSITION:	49 4.9 N 123 29.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 35	BT/XBT NUMBER:	16	PLANKTON CONC.:	
BOTTOM DEPTH:	310 M	TIME OF TOW:	1143 HR	ALIQUOT:	
		DEPTH OF TOW:	307 M	S.H.F.:	11.25

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	26.	6.5	95.2	292.5
MERLUCCIUS PRODUCTUS	312.	78.2	1142.9	3510.0
THERAGRA CHALCOGRAMMA	60.	15.0	219.8	675.0
LYOPSETTA EXILIS	1.	0.3	3.7	11.3
TOTAL	399.	100.0	1461.5	4488.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	39.	15.0	142.9	438.8
MERLUCCIUS PRODUCTUS	209.	80.4	765.6	2351.3
THERAGRA CHALCOGRAMMA	3.	1.2	11.0	33.8
SCORPAENIDAE(FAMILY)	9.	3.5	33.0	101.3
TOTAL	260.	100.0	952.4	2925.0

TABLE:	53	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	53	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.8 C	VOL. FILTERED:	191 M3
POSITION:	49 3.6 N 123 34.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	55 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	191 M	TIME OF TOW:	1235 HR	ALIQUOT:	
		DEPTH OF TOW:	188 M	S.H.F.:	9.84

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	8.5	20.9	39.4
MERLUCCIUS PRODUCTUS	37.	78.7	193.7	364.1
THERAGRA CHALCOGRAMMA	6.	12.8	31.4	59.0
TOTAL	47.	100.0	246.1	462.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	56.	57.7	293.2	551.0
MERLUCCIUS PRODUCTUS	35.	36.1	183.2	344.4
SCORPAENIDAE(FAMILY)	6.	6.2	31.4	59.0
TOTAL	97.	100.0	507.9	954.5

TABLE:	54
CRUISE:	SG 81- 9
SAMPLE NO.:	54
DATE:	14/ 5/81
VESSEL:	CALIGUS
POSITION:	49 1.9 N 123 31.1 W
GRID POSITION:	52 . 38
BOTTOM DEPTH:	244 M
WIND DIRECTION:	135 DEG
WIND VELOCITY:	4 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	0 M
SURFACE TEMP:	12.9 C
STD NUMBER:	
BT/XBT NUMBER:	17
TIME OF TOW:	1315 HR
DEPTH OF TOW:	234 M
TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	223 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	10.51

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	7.2	53.8	126.1
MERLUCCIUS PRODUCTUS	149.	89.8	668.2	1566.0
THERAGRA CHALCOGRAMMA	5.	3.0	22.4	52.6
TOTAL	166.	100.0	744.4	1744.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	37.	26.8	165.9	388.9
MERLUCCIUS PRODUCTUS	88.	63.8	394.6	924.9
THERAGRA CHALCOGRAMMA	4.	2.9	17.9	42.0
SCORPAENIDAE(FAMILY)	8.	5.8	35.9	84.1
LYOPSETTA EXILIS	1.	0.7	4.5	10.5
TOTAL	138.	100.0	618.8	1450.4

TABLE:	55	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	55	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.5 C	VOL. FILTERED:	214 M3
POSITION:	49 0.2 N 123 27.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	49 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	234 M	TIME OF TOW:	1355 HR	ALIQUOT:	
		DEPTH OF TOW:	224 M	S.H.F.:	10.48

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	9.2	37.4	83.8
MERLUCCIUS PRODUCTUS	76.	87.4	355.1	796.5
THERAGRA CHALCOGRAMMA	3.	3.4	14.0	31.4
TOTAL	87.	100.0	406.5	911.8

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	1.1	4.7	10.5
LEUROGLOSSUS STILBIUS	21.	22.3	98.1	220.1
MERLUCCIUS PRODUCTUS	60.	63.8	280.4	628.8
THERAGRA CHALCOGRAMMA	2.	2.1	9.3	21.0
GOBIIDAE(FAMILY)	1.	1.1	4.7	10.5
SCORPAENIDAE(FAMILY)	8.	8.5	37.4	83.8
INOPSETTA ISCHYRA	1.	1.1	4.7	10.5
TOTAL	94.	100.0	439.3	985.1

TABLE:	56	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	56	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	286 M3
POSITION:	49 3.3 N 123 26.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	50 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	305 M	TIME OF TOW:	1437 HR	ALIQUOT:	
		DEPTH OF TOW:	295 M	S.H.F.:	10.31

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	17.	9.6	59.4	175.3
MERLUCCIUS PRODUCTUS	158.	89.3	552.4	1629.0
THERAGRA CHALCOGRAMMA	2.	1.1	7.0	20.6
TOTAL	177.	100.0	618.9	1824.9

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	33.	11.8	115.4	340.2
MERLUCCIUS PRODUCTUS	238.	85.0	832.2	2453.8
THERAGRA CHALCOGRAMMA	2.	0.7	7.0	20.6
SCORPAENIDAE(FAMILY)	7.	2.5	24.5	72.2
TOTAL	280.	100.0	979.0	2886.8

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.5	10.3
TOTAL	1.	100.0	3.5	10.3

TABLE:	57	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	57	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.0 C	VOL. FILTERED:	235 M3
POSITION:	49 3.8 N 123 21.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	48 . 33	BT/XBT NUMBER:	18	PLANKTON CONC.:	
BOTTOM DEPTH:	223 M	TIME OF TOW:	1520 HR	ALIQUOT:	
		DEPTH OF TOW:	207 M	S.H.F.:	8.82

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	6.4	29.8	61.7
MERLUCCIUS PRODUCTUS	98.	89.9	417.0	864.4
THERAGRA CHALCOGRAMMA	4.	3.7	17.0	35.3
TOTAL	109.	100.0	463.8	961.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	2.	2.6	8.5	17.6
LEUROGLOSSUS STILBIUS	15.	19.2	63.8	132.3
MERLUCCIUS PRODUCTUS	57.	73.1	242.6	502.7
THERAGRA CHALCOGRAMMA	2.	2.6	8.5	17.6
SCORPAENIDAE(FAMILY)	2.	2.6	8.5	17.6
TOTAL	78.	100.0	331.9	688.0

TABLE:	58	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	58	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED.	125 M3
POSITION:	49 1.6 N 123 16.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	44 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	132 M	TIME OF TOW:	1610 HR	ALIQUOT:	
		DEPTH OF TOW:	124 M	S.H.F.:	9.91

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	100.0	16.0	19.8
TOTAL	2.	100.0	16.0	19.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	13.0	24.0	29.7
THALEICHTHYS PACIFICUS	4.	17.4	32.0	39.6
LEUROGLOSSUS STILBIUS	6.	26.1	48.0	59.5
MERLUCCIUS PRODUCTUS	8.	34.8	64.0	79.3
STICHAEIDAE(FAMILY)	1.	4.3	8.0	9.9
COTTIDAE(FAMILY)	1.	4.3	8.0	9.9
TOTAL	23.	100.0	184.0	227.9

TABLE:	59	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	59	WAVE HEIGHT:		GL'. TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	217 M3
POSITION:	49 0.2 N 123 21.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	46 . 36	BT/XBT NUMBER:	19	PLANKTON CONC.:	
BOTTOM DEPTH:	238 M	TIME OF TOW:	1721 HR	ALIQUOT:	
		DEPTH OF TOW:	229 M	S.H.F.:	10.56

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	7.1	13.8	31.7
MERLUCCIUS PRODUCTUS	36.	85.7	165.9	380.2
THERAGRA CHALCOGRAMMA	3.	7.1	13.8	31.7
TOTAL	42.	100.0	193.5	443.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	16.	43.2	73.7	169.0
MERLUCCIUS PRODUCTUS	18.	48.6	82.9	190.1
SCORPAENIDAE(FAMILY)	3.	8.1	13.8	31.7
TOTAL	37.	100.0	170.5	390.7

TABLE:	60	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	8 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	60	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.8 C	VOL. FILTERED:	218 M3
POSITION:	48 57.7 N 123 24.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	46 . 39	BT/XBT NUMBER:	20	PLANKTON CONC.:	
BOTTOM DEPTH:	207 M	TIME OF TOW:	1807 HR	ALIQUOT:	
		DEPTH OF TOW:	197 M	S.H.F.:	9.04

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	8.2	18.3	36.2
MERLUCCIUS PRODUCTUS	40.	81.6	183.5	361.6
THERAGRA CHALCOGRAMMA	5.	10.2	22.9	45.2
TOTAL	49.	100.0	224.8	443.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	20.	35.1	91.7	180.8
MERLUCCIUS PRODUCTUS	18.	31.6	82.6	162.7
THERAGRA CHALCOGRAMMA	8.	14.0	36.7	72.3
GOBIIDAE(FAMILY)	1.	1.8	4.6	9.0
SCORPAENIDAE(FAMILY)	10.	17.5	45.9	90.4
TOTAL	57.	100.0	261.5	515.3

TABLE:	61	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	61	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	161 M3
POSITION:	46 55.6 N 123 21.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	43 . 39	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	173 M	TIME OF TOW:	1847 HR	ALIQUOT:	
		DEPTH OF TOW:	160 M	S.H.F.:	9.96

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	5.9	6.2	10.0
MERLUCCIUS PRODUCTUS	13.	76.5	80.7	129.5
THERAGRA CHALCOGRAMMA	3.	17.6	18.6	29.9
TOTAL	17.	100.0	105.6	169.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	28.	62.2	173.9	278.9
MERLUCCIUS PRODUCTUS	12.	26.7	74.5	119.5
RONQUILUS JORDANI	1.	2.2	6.2	10.0
SCORPAENIDAE(FAMILY)	4.	8.9	24.8	39.8
TOTAL	45.	100.0	279.5	448.2

TABLE:	62	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	62	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.6 C	VOL. FILTERED:	159 M3
POSITION:	48 54.4 N 123 16.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	40 . 39	BT/XBT NUMBER:	21	PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	0502 HR	ALIQUOT:	
		DEPTH OF TOW:	185 M	S.H.F.:	11.61

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	7.	77.8	44.0	81.3
THERAGRA CHALCOGRAMMA	1.	11.1	6.3	11.6
LYOPSETTA EXILIS	1.	11.1	6.3	11.6
TOTAL	9.	100.0	56.6	104.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	20.	71.4	125.8	232.2
MERLUCCIUS PRODUCTUS	3.	10.7	18.9	34.8
THERAGRA CHALCOGRAMMA	1.	3.6	6.3	11.6
SCORPAENIDAE(FAMILY)	4.	14.3	25.2	46.4
TOTAL	28.	100.0	176.1	325.1

TABLE:	63	WIND DIRECTION: 270 DEG	TOW SPEED: 1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY: 2 MPS	TYPE OF TOW: OBLIQUE
SAMPLE NO.:	63	WAVE HEIGHT:	GEAR TYPE: BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT: 0 M	MESH SIZE: .351 MM
VESSEL:	CALIGUS	SURFACE TEMP: 11.7 C	VOL. FILTERED: 178 M3
POSITION:	48 52.3 N 123 13.4 W	STD NUMBER:	DISP. VOLUME:
GRID POSITION:	37 . 39	BT/XBT NUMBER:	PLANKTON CONC.:
BOTTOM DEPTH:	204 M	TIME OF TOW: 0542 HR	ALIQUOT:
		DEPTH OF TOW: 200 M	S.H.F.: 11.21

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	6.	100.0	33.7	67.3
TOTAL	6.	100.0	33.7	67.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	17.	65.4	95.5	190.6
MERLUCCIUS PRODUCTUS	1.	3.8	5.6	11.2
SCORPAENIDAE(FAMILY)	7.	26.9	39.3	78.5
INOPSETTA ISOLEPIS	1.	3.8	5.6	11.2
TOTAL	26.	100.0	146.1	291.5

TABLE:	64	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	64	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.5 C	VOL. FILTERED:	221 M3
POSITION:	48 50.6 N 123 9.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	34 . 39	BT/XBT NUMBER:	22	PLANKTON CONC.:	
BOTTOM DEPTH:	197 M	TIME OF TOW:	0623 HR	ALIQUOT:	
		DEPTH OF TOW:	172 M	S.H.F.:	7.79

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.8	4.5	7.8
THALEICHTHYS PACIFICUS	3.	5.3	13.6	23.4
LEUROGLOSSUS STILBIUS	29.	50.9	131.2	225.9
MERLUCCIUS PRODUCTUS	3.	5.3	13.6	23.4
THERAGRA CHALCOGRAMMA	7.	12.3	31.7	54.5
SCORPAENIDAE(FAMILY)	14.	24.6	63.3	109.1
TOTAL	57.	100.0	257.9	444.0

TABLE:	65	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	65	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.9 C	VOL. FILTERED:	160 M3
POSITION:	48 49.1 N 123 7.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	32 . 40	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	140 M	TIME OF TOW:	0655 HR	ALIQUOT:	
		DEPTH OF TOW:	131 M	S.H.F.:	8.17

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	40.0	12.5	16.3
MERLUCCIUS PRODUCTUS	3.	60.0	18.8	24.5
TOTAL	5.	100.0	31.3	40.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	2.3	6.3	8.2
LEUROGLOSSUS STILBIUS	16.	36.4	100.0	130.7
MERLUCCIUS PRODUCTUS	10.	22.7	62.5	81.7
THERAGRA CHALCOGRAMMA	4.	9.1	25.0	32.7
SCORPAENIDAE(FAMILY)	13.	29.5	81.3	106.2
TOTAL	44.	100.0	275.0	359.5

TABLE:	66	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	66	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.9 C	VOL. FILTERED:	172 M3
POSITION:	48 49.7 N 123 5.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	31 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	190 M	TIME OF TOW:	0724 HR	ALIQUOT:	
		DEPTH OF TOW:	190 M	S.H.F.:	11.06

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	4.	100.0	23.3	44.2
TOTAL	4.	100.0	23.3	44.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	24.	51.1	139.5	265.4
MERLUCCIUS PRODUCTUS	4.	8.5	23.3	44.2
THERAGRA CHALCOGRAMMA	2.	4.3	11.6	22.1
SCORPAENIDAE(FAMILY)	16.	34.0	93.0	177.0
INOPSETTA ISOLEPIS	1.	2.1	5.8	11.1
TOTAL	47.	100.0	273.3	519.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
GILBERTIDIA SIGALUTES	1.	100.0	5.8	11.1
TOTAL	1.	100.0	5.8	11.1

TABLE:	67	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	67	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	171 M3
POSITION:	48 48.6 N 123 2.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	29 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	184 M	TIME OF TOW:	0800 HR	ALIQUOT:	
		DEPTH OF TOW:	184 M	S.H.F.:	10.76

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	1.	100.0	5.8	10.8
TOTAL	1.	100.0	5.8	10.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	18.	64.3	105.3	193.7
MERLUCCIUS PRODUCTUS	3.	10.7	17.5	32.3
THERAGRA CHALCOGRAMMA	1.	3.6	5.8	10.8
SCORPAENIDAE(FAMILY)	6.	21.4	35.1	64.6
TOTAL	28.	100.0	163.7	301.3

TABLE:	68	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	68	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	205 M3
POSITION:	48 49.3 N 122 59.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	28 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	217 M	TIME OF TOW:	0827 HR	ALIQUOT:	
		DEPTH OF TOW:	207 M	S.H.F.:	10.10

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	13.	65.0	63.4	131.3
MERLUCCIUS PRODUCTUS	3.	15.0	14.6	30.3
THERAGRA CHALCOGRAMMA	1.	5.0	4.9	10.1
SCORPAENIDAE(FAMILY)	2.	10.0	9.8	20.2
INOPSETTA ISOLEPIS	1.	5.0	4.9	10.1
TOTAL	20.	100.0	97.6	202.0

TABLE:	69	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	69	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	10.1 C	VOL. FILTERED:	250 M3
POSITION:	48 47.4 N 122 58.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	26 . 38	BT/XBT NUMBER:	23	PLANKTON CONC.:	
BOTTOM DEPTH:	237 M	TIME OF TOW:	0911 HR	ALIQUOT:	
		DEPTH OF TOW:	230 M	S.H.F.:	9.21

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	100.0	8.0	18.4
TOTAL	2.	100.0	8.0	18.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	4.0	4.0	9.2
THALEICHTHYS PACIFICUS	1.	4.0	4.0	9.2
LEUROGLOSSUS STILBIUS	9.	36.0	36.0	82.9
MERLUCCIUS PRODUCTUS	6.	24.0	24.0	55.3
THERAGRA CHALCOGRAMMA	1.	4.0	4.0	9.2
SCORPAENIDAE(FAMILY)	6.	24.0	24.0	55.3
CYCLOPTERIDAE(FAMILY)	1.	4.0	4.0	9.2
TOTAL	25.	100.0	100.0	230.3

TABLE:	70	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	70	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.7 C	VOL. FILTERED:	206 M3
POSITION:	48 48.5 N 122 55.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	25 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	195 M	TIME OF TOW:	0950 HR	ALIQUOT:	
		DEPTH OF TOW:	187 M	S.H.F.:	9.07

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	27.8	24.3	45.3
MERLUCCIUS PRODUCTUS	5.	27.8	24.3	45.3
SCORPAENIDAE(FAMILY)	8.	44.4	38.8	72.6
TOTAL	18.	100.0	87.4	163.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	4.9	9.1
TOTAL	1.	100.0	4.9	9.1

TABLE:	71	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	71	WAVE HEIGHT:		GEAR TYPF:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	153 M3
POSITION:	48 50.7 N 122 54.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	26 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	171 M	TIME OF TOW:	1028 HR	ALIQUOT:	
		DEPTH OF TOW:	163 M	S.H.F.:	10.62

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	33.3	45.8	74.3
MERLUCCIUS PRODUCTUS	1.	4.8	6.5	10.6
BATHYMASTERIDAE(FAMILY)	1.	4.8	6.5	10.6
SCORPAENIDAE(FAMILY)	10.	47.6	65.4	106.2
CYCLOPTERIDAE(FAMILY)	1.	4.8	6.5	10.6
INOPSETTA ISOLEPIS	1.	4.8	6.5	10.6
TOTAL	21.	100.0	137.3	223.0

TABLE:	72	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	72	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	187 M3
POSITION:	48 51.7 N 122 58.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	28 . 34	BT/XBT NUMBER:	24	PLANKTON CONC.:	
BOTTOM DEPTH:	209 M	TIME OF TOW:	1104 HR	ALIQUOT:	
		DEPTH OF TOW:	209 M	S.H.F.:	11.16

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	9.	47.4	48.1	100.4
MERLUCCIUS PRODUCTUS	6.	31.6	32.1	67.0
SCORPAENIDAE(FAMILY)	4.	21.1	21.4	44.6
TOTAL	19.	100.0	101.6	212.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
GILBERTIDIA SIGALUTES	1.	100.0	5.3	11.2
TOTAL	1.	100.0	5.3	11.2

TABLE:	73	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	73	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.8 C	VOL. FILTERED:	169 M3
POSITION:	48 51.8 N 123 2.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	31 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	170 M	TIME OF TOW:	1140 HR	ALIQUOT:	
		DEPTH OF TOW:	170 M	S.H.F.:	10.06

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	100.0	11.8	20.1
TOTAL	2.	100.0	11.8	20.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	11.1	11.8	20.1
LEUROGLOSSUS STILBIUS	11.	61.1	65.1	110.7
MERLUCCIUS PRODUCTUS	3.	16.7	17.8	30.2
SCORPAENIDAE(FAMILY)	2.	11.1	11.8	20.1
TOTAL	18.	100.0	106.5	181.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
INOPSETTA ISOLEPIS	1.	100.0	5.9	10.1
TOTAL	1.	100.0	5.9	10.1

TABLE:	74	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	74	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.5 C	VOL. FILTERED:	116 M3
POSITION:	48 54.0 N 122 56.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	29 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	117 M	TIME OF TOW:	1222 HR	ALIQUOT:	
		DEPTH OF TOW:	115 M	S.H.F.:	9.96

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	35.5	94.8	109.6
MERLUCCIUS PRODUCTUS	6.	19.4	51.7	59.8
SCORPAENIDAE(FAMILY)	4.	12.9	34.5	39.8
COTTIDAE(FAMILY)	4.	12.9	34.5	39.8
CYCLOPTERIDAE(FAMILY)	2.	6.5	17.2	19.9
INOPSETTA ISCHYRA	1.	3.2	8.6	10.0
INOPSETTA ISOLEPIS	1.	3.2	8.6	10.0
PLATICHTHYS STELLATUS	1.	3.2	8.6	10.0
REINHARDTIUS HIPPOGLOSSOIDES	1.	3.2	8.6	10.0
TOTAL	31.	100.0	267.2	308.8

TABLE:	75
CRUISE:	SG 81- 9
SAMPLE NO.:	75
DATE:	15/ 5/81
VESSEL:	CALIGUS
POSITION:	48 55.4 N 123 2.8 W
GRID POSITION:	33 . 33
BOTTOM DEPTH:	131 M

WIND DIRECTION:	0 DEG
WIND VELOCITY:	0 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	0 M
SURFACE TEMP:	12.3 C
STD NUMBER:	
BT/XBT NUMBER:	
TIME OF TOW:	1302 HR
DEPTH OF TOW:	124 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	122 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	10.15

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	33.3	16.4	20.3
MERLUCCIUS PRODUCTUS	4.	66.7	32.8	40.6
TOTAL	6.	100.0	49.2	60.9

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
RAJA BINOCULATA	8.	40.0	65.6	81.2
CLUPEA HARENGUS	1.	5.0	8.2	10.1
THALEICHTHYS PACIFICUS	1.	5.0	8.2	10.1
MERLUCCIUS PRODUCTUS	8.	40.0	65.6	81.2
COTTIDAE(FAMILY)	2.	10.0	16.4	20.3
TOTAL	20.	100.0	163.9	203.0

TABLE:	76	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	76	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	122 M3
POSITION:	48 56.8 N 123 8.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	37 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	112 M	TIME OF TOW:	1343 HR	ALIQUOT:	
		DEPTH OF TOW:	102 M	S.H.F.:	8.36

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	5.3	8.2	8.4
LEUROGLOSSUS STILBIUS	10.	52.6	82.0	83.6
MERLUCCIUS PRODUCTUS	2.	10.5	16.4	16.7
SCORPAENIDAE(FAMILY)	6.	31.6	49.2	50.2
TOTAL	19.	100.0	155.7	158.8

TABLE:	77	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	77	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.1 C	VOL. FILTERED:	117 M3
POSITION:	48 53.8 N 123 10.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	36 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	129 M	TIME OF TOW:	1417 HR	ALIQUOT:	
		DEPTH OF TOW:	123 M	S.H.F.:	10.54

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	3.	100.0	25.6	31.6
TOTAL	3.	100.0	25.6	31.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	7.1	8.5	10.5
LEUROGLOSSUS STILBIUS	9.	64.3	76.9	94.9
MERLUCCIUS PRODUCTUS	3.	21.4	25.6	31.6
SCORPAENIDAE(FAMILY)	1.	7.1	8.5	10.5
TOTAL	14.	100.0	119.7	147.6

TABLE:	78	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 9	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	78	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.9 C	VOL. FILTERED:	142 M3
POSITION:	48 56.0 N 123 15.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	40 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	150 M	TIME OF TOW:	1503 HR	ALIQUOT:	
		DEPTH OF TOW:	138 M	S.H.F.:	9.70

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	3.2	7.0	9.7
THALEICHTHYS PACIFICUS	1.	3.2	7.0	9.7
LEUROGLOSSUS STILBIUS	26.	83.9	183.1	252.2
MERLUCCIUS PRODUCTUS	1.	3.2	7.0	9.7
THERAGRA CHALCOGRAMMA	2.	6.5	14.1	19.4
TOTAL	31.	100.0	218.3	300.7

TABLE:	79	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81- 5	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	79	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	15/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	142 M3
POSITION:	48 58.2 N 123 14.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	41 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	148 M	TIME OF TOW:	1535 HR	ALIQUOT:	
		DEPTH OF TOW:	138 M	S.H.F.:	9.69

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	5.	100.0	35.2	48.4
TOTAL	5.	100.0	35.2	48.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	9.1	14.1	19.4
LEUROGLOSSUS STILBIUS	12.	54.5	84.5	116.3
MERLUCCIUS PRODUCTUS	7.	31.8	49.3	67.8
SCORPAENIDAE(FAMILY)	1.	4.5	7.0	9.7
TOTAL	22.	100.0	154.9	213.2

TABLE:	80
CRUISE:	SG 81- 9
SAMPLE NO.:	80
DATE:	15/ 5/81
VESSEL:	CALIGUS
POSITION:	48 57.7 N 123 18.9 W
GRID POSITION:	43 . 37
BOTTOM DEPTH:	187 M

WIND DIRECTION:	315 DEG
WIND VELOCITY:	1 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	0 M
SURFACE TEMP:	15.7 C
STD NUMBER:	
BT/XBT NUMBER:	
TIME OF TOW:	1607 HR
DEPTH OF TOW:	187 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	167 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	11.22

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	3.	75.0	18.0	33.7
THERAGRA CHALCOGRAMMA	1.	25.0	6.0	11.2
TOTAL	4.	100.0	24.0	44.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	2.4	6.0	11.2
LEUROGLOSSUS STILBIUS	31.	75.6	185.6	347.8
MERLUCCIUS PRODUCTUS	5.	12.2	29.9	56.1
BATHYMASTERIDAE(FAMILY)	1.	2.4	6.0	11.2
SCORPAENIDAE(FAMILY)	3.	7.3	18.0	33.7
TOTAL	41.	100.0	245.5	460.0

TABLE:	81	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	1	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.2 C	VOL. FILTERED:	281 M3
POSITION:	49 15.8 N 123 57.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	74 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	315 M	TIME OF TOW:	0355 HR	ALIQUOT:	
		DEPTH OF TOW:	305 M	S.H.F.:	10.85

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	18.	48.6	64.1	195.3
MERLUCCIUS PRODUCTUS	18.	48.6	64.1	195.3
THERAGRA CHALCOGRAMMA	1.	2.7	3.6	10.9
TOTAL	37.	100.0	131.7	401.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	28.	51.9	99.6	303.8
MERLUCCIUS PRODUCTUS	24.	44.4	85.4	260.4
SCORPAENIDAE(FAMILY)	2.	3.7	7.1	21.7
TOTAL	54.	100.0	192.2	585.9

TABLE:	82	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	2	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.[illegible] C	VOL. FILTERED:	266 M3
POSITION:	49 18.3 N 123 54.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	74 . 33	BT/XBT NUMBER:	1	PLANKTON CONC.:	
BOTTOM DEPTH:	409 M	TIME OF TOW:	0442 HR	ALIQUOT:	
		DEPTH OF TOW:	399 M	S.H.F.:	14.98

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	50.0	45.1	179.8
MERLUCCIUS PRODUCTUS	12.	50.0	45.1	179.8
TOTAL	24.	100.0	90.2	359.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	5.	8.3	18.8	74.9
LEUROGLOSSUS STILBIUS	21.	35.0	78.9	314.6
MERLUCCIUS PRODUCTUS	29.	48.3	109.0	434.4
THERAGRA CHALCOGRAMMA	1.	1.7	3.8	15.0
SCORPAENIDAE(FAMILY)	4.	6.7	15.0	59.9
TOTAL	60.	100.0	225.6	898.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	3.8	15.0
NECTOLIPARIS PELAGICUS	1.	50.0	3.8	15.0
TOTAL	2.	100.0	7.5	30.0

TABLE:	83	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	3	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	340 M3
POSITION:	49 18.6 N 123 58.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	76 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	410 M	TIME OF TOW:	0535 HR	ALIQUOT:	
		DEPTH OF TOW:	410 M	S.H.F.:	12.05

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	25.	41.7	73.5	301.3
MERLUCCIUS PRODUCTUS	32.	53.3	94.1	385.6
THERAGRA CHALCOGRAMMA	2.	3.3	5.9	24.1
PLEURONICHTHYS COENOSUS	1.	1.7	2.9	12.1
TOTAL	60.	100.0	176.5	723.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	11.	20.0	32.4	132.6
LEUROGLOSSUS STILBIUS	19.	34.5	55.9	228.9
MERLUCCIUS PRODUCTUS	19.	34.5	55.9	228.9
SCORPAENIDAE(FAMILY)	6	10.9	17.6	72.3
TOTAL	55.	100.0	161.8	662.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	100.0	11.8	48.2
TOTAL	4.	100.0	11.8	48.2

TABLE:	84	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	4	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.0 C	VOL. FILTERED:	341 M3
POSITION:	49 20.3 N 124 1.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	79 . 34	BT/XBT NUMBER:	2	PLANKTON CONC.:	
BOTTOM DEPTH:	409 M	TIME OF TOW:	0630 HR	ALIQUOT:	
		DEPTH OF TOW:	391 M	S.H.F.:	11.48

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	23.	43.4	67.4	264.0
MERLUCCIUS PRODUCTUS	27.	50.9	79.2	310.0
THERAGRA CHALCOGRAMMA	3.	5.7	8.8	34.4
TOTAL	53.	100.0	155.4	608.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	39.	39.8	114.4	447.7
MERLUCCIUS PRODUCTUS	50.	51.0	146.6	574.0
SCORPAENIDAE(FAMILY)	8.	8.2	23.5	91.8
PLEURONICHTHYS COENOSUS	1.	1.0	2.9	11.5
TOTAL	98.	100.0	287.4	1125.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	3.	100.0	8.8	34.4
TOTAL	3.	100.0	8.8	34.4

TABLE:	85	WIND DIRECTION: 270 DEG	TOW SPEED: 1 MPS
CRUISE:	SG 81-10	WIND VELOCITY: 1 MPS	TYPE OF TOW: OBLIQUE
SAMPLE NO.:	5	WAVE HEIGHT:	GEAR TYPE: BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT: 0 M	MESH SIZE: .351 MM
VESSEL:	CALIGUS	SURFACE TEMP: 12.8 C	VOL. FILTERED: 215 M3
POSITION:	49 18.2 N 124 4.0 W	STD NUMBER:	DISP. VOLUME:
GRID POSITION:	79 . 36	BT/XBT NUMBER:	PLANKTON CONC.:
BOTTOM DEPTH:	254 M	TIME OF TOW: 0712 HR	ALIQUOT:
		DEPTH OF TOW: 244 M	S.H.F.: 11.34

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	2.6	4.7	11.3
LEUROGLOSSUS STILBIUS	6.	15.4	27.9	68.0
MERLUCCIUS PRODUCTUS	31.	79.5	144.2	351.5
THERAGRA CHALCOGRAMMA	1.	2.6	4.7	11.3
TOTAL	39.	100.0	181.4	442.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	2.0	4.7	11.3
LEUROGLOSSUS STILBIUS	20.	40.8	93.0	226.8
MERLUCCIUS PRODUCTUS	26.	53.1	120.9	294.8
SCORPAENIDAE(FAMILY)	2.	4.1	9.3	22.7
TOTAL	49.	100.0	227.9	555.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	50.0	4.7	11.3
CYCLOPTERIDAE(FAMILY)	1.	50.0	4.7	11.3
TOTAL	2.	100.0	9.3	22.7

TABLE:	86	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	6	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.1 C	VOL. FILTERED:	317 M3
POSITION:	49 20.3 N 124 7.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	82 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	383 M	TIME OF TOW:	0753 HR	ALIQUOT:	
		DEPTH OF TOW:	358 M	S.H.F.:	11.31

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	19.	42.2	59.9	214.9
MERLUCCIUS PRODUCTUS	26.	57.8	82.0	294.1
TOTAL	45.	100.0	142.0	509.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	5.	8.2	15.8	56.6
LEUROGLOSSUS STILBIUS	28.	45.9	88.3	316.7
MERLUCCIUS PRODUCTUS	26.	42.6	82.0	294.1
GOBIIDAE(FAMILY)	1.	1.6	3.2	11.3
SCORPAENIDAE(FAMILY)	1.	1.6	3.2	11.3
TOTAL	61.	100.0	192.4	689.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	100.0	9.5	33.9
TOTAL	3.	100.0	9.5	33.9

TABLE:	87	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	7	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.7 C	VOL. FILTERED:	285 M3
POSITION:	49 22.8 N 124 10.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	85 . 35	BT/XBT NUMBER:	3	PLANKTON CONC.:	
BOTTOM DEPTH:	350 M	TIME OF TOW:	0842 HR	ALIQUOT:	
		DEPTH OF TOW:	340 M	S.H.F.:	11.93

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	22.6	24.6	83.5
MERLUCCIUS PRODUCTUS	24.	77.4	84.2	286.3
TOTAL	31.	100.0	108.8	369.8

LARVAE	TOTAL NUMBER	TAXA PCT	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	12.5	28.1	95.4
LEUROGLOSSUS STILBIUS	18.	28.1	63.2	214.7
MERLUCCIUS PRODUCTUS	30.	46.9	105.3	357.9
SCORPAENIDAE(FAMILY)	8.	12.5	28.1	95.4
TOTAL	64.	100.0	224.6	763.5

TABLE: 88
CRUISE: SG 81-10
SAMPLE NO.: 8
DATE: 25/ 5/81
VESSEL: CALIGUS
POSITION: 49 22.8 N 124 4.8 W
GRID POSITION: 82 . 33
BOTTOM DEPTH: 245 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 2 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 14.3 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 0936 HR
DEPTH OF TOW: 231 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 207 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 11.18

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	18.	47.4	87.0	201.2
MERLUCCIUS PRODUCTUS	20.	52.6	96.6	223.6
TOTAL	38.	100.0	183.6	424.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	3.	5.5	14.5	33.5
LEUROGLOSSUS STILBIUS	19.	34.5	91.8	212.4
MERLUCCIUS PRODUCTUS	27.	49.1	130.4	301.9
SCORPAENIDAE(FAMILY)	6.	10.9	29.0	67.1
TOTAL	55.	100.0	265.7	614.9

TABLE:	89	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	9	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	257 M3
POSITION:	49 21.4 N 123 58.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	280 M	TIME OF TOW:	1030 HR	ALIQUOT:	
		DEPTH OF TOW:	270 M	S.H.F.:	10.51

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	25.	55.6	97.3	262.8
MERLUCCIUS PRODUCTUS	19.	42.2	73.9	199.7
LYOPSETTA EXILIS	1.	2.2	3.9	10.5
TOTAL	45.	100.0	175.1	473.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	7.	5.9	27.2	73.6
LEUROGLOSSUS STILBIUS	35.	29.7	136.2	367.9
MERLUCCIUS PRODUCTUS	68.	57.6	264.6	714.7
SCORPAENIDAE(FAMILY)	8.	6.8	31.1	84.1
TOTAL	118.	100.0	459.1	1240.2

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	33.3	3.9	10.5
LYCODAPUS MANDIBULARIS	2.	66.7	7.8	21.0
TOTAL	3.	100.0	11.7	31.5

TABLE:	90	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	10	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.5 C	VOL. FILTERED:	263 M3
POSITION:	49 21.4 N 123 53.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	75 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	280 M	TIME OF TOW:	1115 HR	ALIQUOT:	
		DEPTH OF TOW:	247 M	S.H.F.:	9.39

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	19.	25.7	72.2	178.4
MERLUCCIUS PRODUCTUS	50.	67.6	190.1	469.5
THERAGRA CHALCOGRAMMA	5.	6.8	19.0	47.0
TOTAL	74.	100.0	281.4	694.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	7.0	30.4	75.1
LEUROGLOSSUS STILBIUS	45.	39.1	171.1	422.6
MERLUCCIUS PRODUCTUS	57.	49.6	216.7	535.2
THERAGRA CHALCOGRAMMA	1.	0.9	3.8	9.4
GOBIIDAE(FAMILY)	1.	0.9	3.8	9.4
SCORPAENIDAE(FAMILY)	3.	2.6	11.4	28.2
TOTAL	115.	100.0	437.3	1079.9

TABLE:	91	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	11	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.6 C	VOL. FILTERED:	176 M3
POSITION:	49 24.4 N 123 52.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	76 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	191 M	TIME OF TOW:	1200 HR	ALIQUOT:	
		DEPTH OF TOW:	181 M	S.H.F.:	10.28

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	10.2	28.4	51.4
MERLUCCIUS PRODUCTUS	43.	87.8	244.3	442.0
THERAGRA CHALCOGRAMMA	1.	2.0	5.7	10.3
TOTAL	49.	100.0	278.4	503.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	10.	13.5	56.8	102.8
LEUROGLOSSUS STILBIUS	16.	21.6	90.9	164.5
MERLUCCIUS PRODUCTUS	38.	51.4	215.9	390.6
THERAGRA CHALCOGRAMMA	3.	4.1	17.0	30.8
GOBIIDAE(FAMILY)	1.	1.4	5.7	10.3
SCORPAENIDAE(FAMILY)	6.	8.1	34.1	61.7
TOTAL	74.	100.0	420.5	760.7

TABLE:	92	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	12	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.5 C	VOL. FILTERED:	302 M3
POSITION:	49 23.9 N 123 56.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 29	BT/XBT NUMBER:	4	PLANKTON CONC.:	
BOTTOM DEPTH:	375 M	TIME OF TOW:	1230 HR	ALIQUOT:	
		DEPTH OF TOW:	328 M	S.H.F.:	10.86

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	8.0	36.4	119.5
MERLUCCIUS PRODUCTUS	114.	83.2	377.5	1238.0
THERAGRA CHALCOGRAMMA	12.	8.8	39.7	130.3
TOTAL	137.	100.0	453.6	1487.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	15.	8.9	49.7	162.9
LEUROGLOSSUS STILBIUS	42.	24.9	139.1	456.1
MERLUCCIUS PRODUCTUS	104.	61.5	344.4	1129.4
THERAGRA CHALCOGRAMMA	3.	1.8	9.9	32.6
SCORPAENIDAE(FAMILY)	5.	3.0	16.6	54.3
TOTAL	169.	100.0	559.6	1835.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.3	10.9
TOTAL	1.	100.0	3.3	10.9

TABLE:	93	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	13	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.7 C	VOL. FILTERED:	355 M3
POSITION:	49 24.7 N 124 1.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	81 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	399 M	TIME OF TOW:	1317 HR	ALIQUOT:	
		DEPTH OF TOW:	389 M	S.H.F.:	10.96

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	15.	17.4	42.3	164.4
MERLUCCIUS PRODUCTUS	66.	76.7	185.9	723.4
THERAGRA CHALCOGRAMMA	5.	5.8	14.1	54.8
TOTAL	86.	100.0	242.3	942.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	22.	18.8	62.0	241.1
LEUROGLOSSUS STILBIUS	46.	39.3	129.6	504.2
MERLUCCIUS PRODUCTUS	43.	36.8	121.1	471.3
THERAGRA CHALCOGRAMMA	1.	0.9	2.8	11.0
SCORPAENIDAE(FAMILY)	5.	4.3	14.1	54.8
TOTAL	117.	100.0	329.6	1282.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	2.8	11.0
TOTAL	1.	100.0	2.8	11.0

TABLE:	94	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	14	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.6 C	VOL. FILTERED:	264 M3
POSITION:	49 25.6 N 124 5.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	84 . 31	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	300 M	TIME OF TOW:	1412 HR	ALIQUOT:	
		DEPTH OF TOW:	290 M	S.H.F.:	11.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	38.9	26.5	77.1
MERLUCCIUS PRODUCTUS	11.	61.1	41.7	121.1
TOTAL	18.	100.0	68.2	198.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	13.	21.0	49.2	143.1
LEUROGLOSSUS STILBIUS	17.	27.4	64.4	187.2
MERLUCCIUS PRODUCTUS	18.	29.0	68.2	198.2
GOBIIDAE(FAMILY)	2.	3.2	7.6	22.0
SCORPAENIDAE(FAMILY)	12.	19.4	45.5	132.1
TOTAL	62.	100.0	234.8	682.6

TABLE:	95	WIND DIRECTION:	135 DEG
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS
SAMPLE NO.:	15	WAVE HEIGHT:	
DATE:	25/ 5/81	SWELL HEIGHT:	0 M
VESSEL:	CALIGUS	SURFACE TEMP:	15.2 C
POSITION:	49 28.0 N 124 3.1 W	STD NUMBER:	
GRID POSITION:	84 . 28	BT/XBT NUMBER:	5
BOTTOM DEPTH:	333 M	TIME OF TOW:	1459 HR
		DEPTH OF TOW:	312 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	287 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	10.85

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	17.4	41.8	130.2
MERLUCCIUS PRODUCTUS	57.	82.6	198.6	618.5
TOTAL	69.	100.0	240.4	748.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	23.	17.4	80.1	249.6
LEUROGLOSSUS STILBIUS	15.	11.4	52.3	162.8
MERLUCCIUS PRODUCTUS	77.	58.3	268.3	835.5
THERAGRA CHALCOGRAMMA	1.	0.8	3.5	10.9
SCORPAENIDAE(FAMILY)	15.	11.4	52.3	162.8
CYCLOPTERIDAE(FAMILY)	1.	0.8	3.5	10.9
TOTAL	132.	100.0	459.9	1432.2

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
STENOBRACHIUS LEUCOPSARUS	1.	33.3	3.5	10.9
PARALIPARIS DEANI	2.	66.7	7.0	21.7
TOTAL	3.	100.0	10.5	32.6

TABLE:	96	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	16	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.4 C	VOL. FILTERED:	184 M3
POSITION:	49 27.2 N 123 58.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	81 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	199 M	TIME OF TOW:	1548 HR	ALIQUOT:	
		DEPTH OF TOW:	195 M	S.H.F.:	10.62

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	4.0	5.4	10.6
LEUROGLOSSUS STILBIUS	5.	20.0	27.2	53.1
MERLUCCIUS PRODUCTUS	16.	64.0	87.0	169.9
THERAGRA CHALCOGRAMMA	2.	8.0	10.9	21.2
PLEURONICHTHYS COENOSUS	1.	4.0	5.4	10.6
TOTAL	25.	100.0	135.9	265.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	5.	10.6	27.2	53.1
LEUROGLOSSUS STILBIUS	18.	38.3	97.8	191.2
MERLUCCIUS PRODUCTUS	19.	40.4	103.3	201.8
THERAGRA CHALCOGRAMMA	1.	2.1	5.4	10.6
GOBIIDAE(FAMILY)	2.	4.3	10.9	21.2
SCORPAENIDAE(FAMILY)	1.	2.1	5.4	10.6
CYCLOPTERIDAE(FAMILY)	1.	2.1	5.4	10.6
TOTAL	47.	100.0	255.4	499.1

TABLE:	97	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	17	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	25/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.2 C	VOL. FILTERED:	179 M3
POSITION:	49 27.2 N 123 52.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	209 M	TIME OF TOW:	1637 HR	ALIQUOT:	
		DEPTH OF TOW:	207 M	S.H.F.:	11.56

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	35.5	61.5	127.2
MERLUCCIUS PRODUCTUS	19.	61.3	106.1	219.6
THERAGRA CHALCOGRAMMA	1.	3.2	5.6	11.6
TOTAL	31.	100.0	173.2	358.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	20.	23.5	111.7	231.2
LEUROGLOSSUS STILBIUS	30.	35.3	167.6	346.8
MERLUCCIUS PRODUCTUS	24.	28.2	134.1	277.4
SCORPAENIDAE(FAMILY)	11.	12.9	61.5	127.2
TOTAL	85.	100.0	474.9	982.6

TABLE:	98	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	18	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	136 M3
POSITION:	49 25.2 N 123 45.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	73 . 24	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	164 M	TIME OF TOW:	0557 HR	ALIQUOT:	
		DEPTH OF TOW:	152 M	S.H.F.:	11.16

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	33.3	7.4	11.2
MERLUCCIUS PRODUCTUS	2.	66.7	14.7	22.3
TOTAL	3.	100.0	22.1	33.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.7	7.4	11.2
THALEICHTHYS PACIFICUS	36.	60.0	264.7	401.8
LEUROGLOSSUS STILBIUS	12.	20.0	88.2	133.9
MERLUCCIUS PRODUCTUS	8.	13.3	58.8	89.3
GOBIIDAE(FAMILY)	1.	1.7	7.4	11.2
SCORPAENIDAE(FAMILY)	2.	3.3	14.7	22.3
TOTAL	60.	100.0	441.2	669.6

TABLE:	99	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	19	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.0 C	VOL. FILTERED:	202 M3
POSITION:	49 22.2 N 123 47.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	72 . 27	BT/XBT NUMBER:	6	PLANKTON CONC.:	
BOTTOM DEPTH:	220 M	TIME OF TOW:	0635 HR	ALIQUOT:	
		DEPTH OF TOW:	217 M	S.H.F.:	10.72

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	13.	11.6	64.4	139.4
MERLUCCIUS PRODUCTUS	96.	85.7	475.2	1029.1
THERAGRA CHALCOGRAMMA	3.	2.7	14.9	32.2
TOTAL	112.	100.0	554.5	1200.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	29.	40.3	143.6	310.9
LEUROGLOSSUS STILBIUS	22.	30.6	108.9	235.8
MERLUCCIUS PRODUCTUS	20.	27.8	99.0	214.4
SCORPAENIDAE(FAMILY)	1.	1.4	5.0	10.7
TOTAL	72.	100.0	356.4	771.8

TABLE:	100	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO :	20	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	349 M3
POSITION:	49 19.7 N 123 49.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	72 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	410 M	TIME OF TOW:	0717 HR	ALIQUOT:	
		DEPTH OF TOW:	400 M	S.H.F.:	11.47

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	6.7	31.5	126.2
MERLUCCIUS PRODUCTUS	148.	90.2	424.1	1697.6
THERAGRA CHALCOGRAMMA	5.	3.0	14.3	57.4
TOTAL	164.	100.0	469.9	1881.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	30.	20.4	86.0	344.1
MERLUCCIUS PRODUCTUS	113.	76.9	323.8	1296.1
SCORPAENIDAE(FAMILY)	4.	2.7	11.5	45.9
TOTAL	147.	100.0	421.2	1636.1

TABLE:	101	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	21	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.8 C	VOL. FILTERED:	284 M3
POSITION:	49 18.8 N 123 45.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	69 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	326 M	TIME OF TOW:	0810 HR	ALIQUOT:	
		DEPTH OF TOW:	326 M	S.H.F.:	11.48

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	4.2	28.2	91.8
MERLUCCIUS PRODUCTUS	180.	95.2	633.8	2066.4
THERAGRA CHALCOGRAMMA	1.	0.5	3.5	11.5
TOTAL	189.	100.0	665.5	2169.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	0.6	3.5	11.5
LEUROGLOSSUS STILBIUS	34.	21.0	119.7	390.3
MERLUCCIUS PRODUCTUS	121.	74.7	426.1	1389.1
THERAGRA CHALCOGRAMMA	2.	1.2	7.0	23.0
GOBIIDAE(FAMILY)	1.	0.6	3.5	11.5
SCORPAENIDAE(FAMILY)	3.	1.9	10.6	34.4
TOTAL	162.	100.0	570.4	1859.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.5	11.5
TOTAL	1.	100.0	3.5	11.5

TABLE:	102	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	22	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	177 M3
POSITION:	49 19.4 N 123 40.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	67 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	194 M	TIME OF TOW:	0853 HR	ALIQUOT:	
		DEPTH OF TOW:	194 M	S.H.F.:	10.95

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	10.0	11.3	21.9
MERLUCCIUS PRODUCTUS	18.	90.0	101.7	197.1
TOTAL	20.	100.0	113.0	219.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	13.	50.0	73.4	142.3
MERLUCCIUS PRODUCTUS	11.	42.3	62.1	120.4
SCORPAENIDAE(FAMILY)	2.	7.7	11.3	21.9
TOTAL	26.	100.0	146.9	284.7

TABLE:	103	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	23	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	177 M3
POSITION:	49 21.3 N 123 42.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	69 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	187 M	TIME OF TOW:	0926 HR	ALIQUOT:	
		DEPTH OF TOW:	177 M	S.H.F.:	10.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	22.7	28.2	50.1
MERLUCCIUS PRODUCTUS	17.	77.3	96.0	170.2
TOTAL	22.	100.0	124.3	220.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	14.5	45.2	80.1
LEUROGLOSSUS STILBIUS	29.	52.7	163.8	290.3
MERLUCCIUS PRODUCTUS	11.	20.0	62.1	110.1
THERAGRA CHALCOGRAMMA	1.	1.8	5.6	10.0
SCORPAENIDAE(FAMILY)	6.	10.9	33.9	60.1
TOTAL	55.	100.0	310.7	550.6

TABLE:	104	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	24	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.7 C	VOL. FILTERED:	160 M3
POSITION:	49 23.2 N 123 38.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 23	BT/XBT NUMBER:	7	PLANKTON CONC.:	
BOTTOM DEPTH:	173 M	TIME OF TOW:	1011 HR	ALIQUOT:	
		DEPTH OF TOW:	170 M	S.H.F.:	10.65

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	23.5	25.0	42.6
MERLUCCIUS PRODUCTUS	13.	76.5	81.3	138.4
TOTAL	17.	100.0	106.3	181.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	29.	40.8	181.3	308.8
LEUROGLOSSUS STILBIUS	17.	23.9	106.3	181.0
MERLUCCIUS PRODUCTUS	22.	31.0	137.5	234.3
SCORPAENIDAE(FAMILY)	1.	1.4	6.3	10.6
COTTIDAE(FAMILY)	1.	1.4	6.3	10.6
INOPSETTA ISCHYRA	1.	1.4	6.3	10.6
TOTAL	71.	100.0	443.8	756.2

TABLE:	105	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	25	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	177 M3
POSITION:	49 19.4 N 123 35.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	64 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	174 M	TIME OF TOW:	1104 HR	ALIQUOT:	
		DEPTH OF TOW:	162 M	S.H.F.:	9.15

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	12.5	5.6	9.1
LEUROGLOSSUS STILBIUS	1.	12.5	5.6	9.1
MERLUCCIUS PRODUCTUS	6.	75.0	33.9	54.9
TOTAL	8.	100.0	45.2	73.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	16.	16.7	90.4	146.4
LEUROGLOSSUS STILBIUS	29.	30.2	163.8	265.3
MERLUCCIUS PRODUCTUS	30.	31.3	169.5	274.5
THERAGRA CHALCOGRAMMA	2.	2.1	11.3	18.3
GOBIIDAE(FAMILY)	2.	2.1	11.3	18.3
SCORPAENIDAE(FAMILY)	17.	17.7	96.0	155.5
TOTAL	96.	100.0	542.4	878.4

TABLE:	106	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	26	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.4 C	VOL. FILTERED:	169 M3
POSITION:	49 20.7 N 123 30.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 22	BT/XBT NUMBER:	8	PLANKTON CONC.:	
BOTTOM DEPTH:	198 M	TIME OF TOW:	1153 HR	ALIQUOT:	
		DEPTH OF TOW:	195 M	S.H.F.:	11.57

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	3.8	11.8	23.1
LEUROGLOSSUS STILBIUS	5.	9.4	29.6	57.8
MERLUCCIUS PRODUCTUS	46.	86.8	272.2	532.2
TOTAL	53.	100.0	313.6	613.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	1.0	5.9	11.6
THALEICHTHYS PACIFICUS	43.	41.3	254.4	497.5
LEUROGLOSSUS STILBIUS	20.	19.2	118.3	231.4
MERLUCCIUS PRODUCTUS	23.	22.1	136.1	266.1
THERAGRA CHALCOGRAMMA	2.	1.9	11.8	23.1
SCORPAENIDAE(FAMILY)	13.	12.5	76.9	150.4
CYCLOPTERIDAE(FAMILY)	1.	1.0	5.9	11.6
PLATICHTHYS STELLATUS	1.	1.0	5.9	11.6
TOTAL	104.	100.0	615.4	1203.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	5.9	11.6
TOTAL	1.	100.0	5.9	11.6

TABLE:	107	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	27	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.3 C	VOL. FILTERED:	132 M3
POSITION:	49 18.2 N 123 27.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	59 . 23	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	144 M	TIME OF TOW:	1235 HR	ALIQUOT:	
		DEPTH OF TOW:	139 M	S.H.F.:	10.51

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	9.5	15.2	21.0
LEUROGLOSSUS STILBIUS	3.	14.3	22.7	31.5
MERLUCCIUS PRODUCTUS	15.	71.4	113.6	157.7
PLEURONICHTHYS COENOSUS	1.	4.8	7.6	10.5
TOTAL	21.	100.0	159.1	220.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	96.	74.4	727.3	1009.0
LEUROGLOSSUS STILBIUS	14.	10.9	106.1	147.1
MERLUCCIUS PRODUCTUS	11.	8.5	83.3	115.6
SCORPAENIDAE(FAMILY)	8.	6.2	60.6	84.1
TOTAL	129.	100.0	977.3	1355.8

TABLE:	108	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	28	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.0 C	VOL. FILTERED:	164 M3
POSITION:	49 17.7 N 123 31.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	61 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	1312 HR	ALIQUOT:	
		DEPTH OF TOW:	178 M	S.H.F.:	10.84

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	10.	90.9	61.0	108.4
THERAGRA CHALCOGRAMMA	1.	9.1	6.1	10.8
TOTAL	11.	100.0	67.1	119.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	15.4	48.8	86.7
LEUROGLOSSUS STILBIUS	23.	44.2	140.2	249.3
MERLUCCIUS PRODUCTUS	15.	28.8	91.5	162.6
THERAGRA CHALCOGRAMMA	1.	1.9	6.1	10.8
GOBIIDAE(FAMILY)	2.	3.8	12.2	21.7
SCORPAENIDAE(FAMILY)	3.	5.8	18.3	32.5
TOTAL	52.	100.0	317.1	563.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CYCLOPTERIDAE(FAMILY)	1.	50.0	6.1	10.8
NECTOLIPARIS PELAGICUS	1.	50.0	6.1	10.8
TOTAL	2.	100.0	12.2	21.7

TABLE:	109	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	29	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	226 M3
POSITION:	49 16.3 N 123 36.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	63 . 28	BT/XBT NUMBER:	9	PLANKTON CONC.:	
BOTTOM DEPTH:	267 M	TIME OF TOW:	1358 HR	ALIQUOT:	
		DEPTH OF TOW:	264 M	S.H.F.:	11.66

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	1.8	8.8	23.3
MERLUCCIUS PRODUCTUS	108.	97.3	477.9	1259.3
THERAGRA CHALCOGRAMMA	1.	0.9	4.4	11.7
TOTAL	111.	100.0	491.2	1294.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	19.	19.2	84.1	221.5
LEUROGLOSSUS STILBIUS	15.	15.2	66.4	174.9
MERLUCCIUS PRODUCTUS	61.	61.6	269.9	711.3
THERAGRA CHALCOGRAMMA	2.	2.0	8.8	23.3
SCORPAENIDAE(FAMILY)	2.	2.0	8.8	23.3
TOTAL	99.	100.0	438.1	1154.3

TABLE:	110	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	30	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	306 M3
POSITION:	49 15.8 N 123 40.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	65 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	370 M	TIME OF TOW:	1440 HR	ALIQUOT:	
		DEPTH OF TOW:	360 M	S.H.F.:	11.75

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	3.7	13.1	47.0
MERLUCCIUS PRODUCTUS	103.	95.4	336.6	1210.3
THERAGRA CHALCOGRAMMA	1.	0.9	3.3	11.8
TOTAL	108.	100.0	352.9	1269.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	3.	2.7	9.8	35.3
LEUROGLOSSUS STILBIUS	26.	23.0	85.0	305.5
MERLUCCIUS PRODUCTUS	80.	70.8	261.4	940.0
THERAGRA CHALCOGRAMMA	3.	2.7	9.8	35.3
SCORPAENIDAE(FAMILY)	1.	0.9	3.3	11.8
TOTAL	113.	100.0	369.3	1327.8

TABLE:	111	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	31	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	326 M3
POSITION:	49 15.8 N 123 46.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 32	BT/XBT NUMBER:	10	PLANKTON CONC.:	
BOTTOM DEPTH:	398 M	TIME OF TOW:	1534 HR	ALIQUOT:	
		DEPTH OF TOW:	388 M	S.H.F.:	11.91

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	9.8	36.8	142.9
MERLUCCIUS PRODUCTUS	90.	73.8	276.1	1071.9
THERAGRA CHALCOGRAMMA	20.	16.4	61.3	238.2
TOTAL	122.	100.0	374.2	1453.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	2.	2.0	6.1	23.8
LEUROGLOSSUS STILBIUS	28.	28.0	85.9	333.5
MERLUCCIUS PRODUCTUS	61.	61.0	187.1	726.5
GOBIIDAE(FAMILY)	2.	2.0	6.1	23.8
SCORPAENIDAE(FAMILY)	7.	7.0	21.5	83.4
TOTAL	100.	100.0	306.7	1191.0

TABLE:	112	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	32	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.0 C	VOL. FILTERED:	322 M3
POSITION:	49 16.6 N 123 50.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	71 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	405 M	TIME OF TOW:	1627 HR	ALIQUOT:	
		DEPTH OF TOW:	395 M	S.H.F.:	12.25

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	25.0	21.7	85.8
MERLUCCIUS PRODUCTUS	21.	75.0	65.2	257.3
TOTAL	28.	100.0	87.0	343.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	46.	36.5	142.9	563.5
MERLUCCIUS PRODUCTUS	76.	60.3	236.0	931.0
THERAGRA CHALCOGRAMMA	2.	1.6	6.2	24.5
SCORPAENIDAE(FAMILY)	2.	1.6	6.2	24.5
TOTAL	126.	100.0	391.3	1543.5

TABLE:	113	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	33	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	26/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.2 C	VOL. FILTERED:	189 M3
POSITION:	49 14.2 N 123 53.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	71 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	1751 HR	ALIQUOT:	
		DEPTH OF TOW:	175 M	S.H.F.:	9.27

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	9.8	21.2	37.1
MERLUCCIUS PRODUCTUS	37.	90.2	195.8	343.0
TOTAL	41.	100.0	216.9	380.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	4.	8.5	21.2	37.1
LEUROGLOSSUS STILBIUS	22.	46.8	116.4	203.9
MERLUCCIUS PRODUCTUS	12.	25.5	63.5	111.2
THERAGRA CHALCOGRAMMA	1.	2.1	5.3	9.3
GOBIIDAE(FAMILY)	1.	2.1	5.3	9.3
SCORPAENIDAE(FAMILY)	7.	14.9	37.0	64.9
TOTAL	47.	100.0	248.7	435.7

TABLE:	114	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	6 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	34	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	198 M3
POSITION:	49 13.3 N 123 48.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	210 M	TIME OF TOW:	0451 HR	ALIQUOT:	
		DEPTH OF TOW:	200 M	S.H.F.:	10.11

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	10.	13.0	50.5	101.1
MERLUCCIUS PRODUCTUS	64.	83.1	323.2	647.0
THERAGRA CHALCOGRAMMA	1.	1.3	5.1	10.1
PLEURONICHTHYS COENOSUS	2.	2.6	10.1	20.2
TOTAL	77.	100.0	388.9	778.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	26.	51.0	131.3	262.9
MERLUCCIUS PRODUCTUS	10.	19.6	50.5	101.1
SCORPAENIDAE(FAMILY)	13.	25.5	65.7	131.4
LYOPSETTA EXILIS	1.	2.0	5.1	10.1
PLEURONICHTHYS COENOSUS	1.	2.0	5.1	10.1
TOTAL	51.	100.0	257.6	515.6

TABLE: 115
CRUISE: SG 81-10
SAMPLE NO.: 35
DATE: 27/ 5/81
VESSEL: CALIGUS
POSITION: 49 13.3 N 123 43.3 W
GRID POSITION: 65 . 33
BOTTOM DEPTH: 370 M

WIND DIRECTION: 315 DEG
WIND VELOCITY: 6 MPS
WAVE HEIGHT:
SWELL HEIGHT: 1 M
SURFACE TEMP: 11.8 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 0538 HR
DEPTH OF TOW: 360 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 350 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 10.30

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	10.	11.2	28.6	103.0
MERLUCCIUS PRODUCTUS	71.	79.8	202.9	731.3
THERAGRA CHALCOGRAMMA	8.	9.0	22.9	82.4
TOTAL	89.	100.0	254.3	916.7

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	0.8	2.9	10.3
LEUROGLOSSUS STILBIUS	43.	34.7	122.9	442.9
MERLUCCIUS PRODUCTUS	75.	60.5	214.3	772.5
SCORPAENIDAE(FAMILY)	5.	4.0	14.3	51.5
TOTAL	124.	100.0	354.3	1277.2

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	100.0	8.6	30.9
TOTAL	3.	100.0	8.6	30.9

TABLE:	116
CRUISE:	SG 81-10
SAMPLE NO.:	36
DATE:	27/ 5/81
VESSEL:	CALIGUS
POSITION:	49 10.0 N 123 41.2 W
GRID POSITION:	62 . 35
BOTTOM DEPTH:	142 M

WIND DIRECTION:	315 DEG
WIND VELOCITY:	6 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	1 M
SURFACE TEMP:	11.8 C
STD NUMBER:	
BT/XBT NUMBER:	
TIME OF TOW:	0634 HR
DEPTH OF TOW:	139 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	137 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	10.13

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	1.	2.3	7.3	10.1
LEUROGLOSSUS STILBIUS	17.	39.5	124.1	172.2
MERLUCCIUS PRODUCTUS	7.	16.3	51.1	70.9
THERAGRA CHALCOGRAMMA	1.	2.3	7.3	10.1
GOBIIDAE(FAMILY)	2.	4.7	14.6	20.3
SCORPAENIDAE(FAMILY)	15.	34.9	109.5	151.9
TOTAL	43.	100.0	313.9	435.6

TABLE:	117	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	6 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	37	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	164 M3
POSITION:	49 7.7 N 123 36.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	58 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	160 M	TIME OF TOW:	0725 HR	ALIQUOT:	
		DEPTH OF TOW:	153 M	S.H.F.:	9.32

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	20.0	12.2	18.6
MERLUCCIUS PRODUCTUS	8.	80.0	48.8	74.6
TOTAL	10.	100.0	61.0	93.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	90.	61.2	548.8	838.8
LEUROGLOSSUS STILBIUS	35.	23.8	213.4	326.2
MERLUCCIUS PRODUCTUS	18.	12.2	109.8	167.8
THERAGRA CHALCOGRAMMA	1.	0.7	6.1	9.3
SCORPAENIDAE(FAMILY)	2.	1.4	12.2	18.6
PLATICHTHYS STELLATUS	1.	0.7	6.1	9.3
TOTAL	147.	100.0	896.3	1370.0

TABLE:	118	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	8 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	38	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.0 C	VOL. FILTERED:	255 M3
POSITION:	49 8.5 N 123 29.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	55 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	338 M	TIME OF TOW:	0810 HR	ALIQUOT:	
		DEPTH OF TOW:	328 M	S.H.F.:	12.88

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	12.8	47.1	154.6
MERLUCCIUS PRODUCTUS	61.	64.9	239.2	785.7
THERAGRA CHALCOGRAMMA	21.	22.3	82.4	270.5
TOTAL	94.	100.0	368.6	1210.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	357.	81.0	1400.0	4598.2
LEUROGLOSSUS STILBIUS	18.	4.1	70.6	231.8
MERLUCCIUS PRODUCTUS	56.	12.7	219.6	721.3
THERAGRA CHALCOGRAMMA	2.	0.5	7.8	25.8
BROSMOPHYCIS MARGINATA	1.	0.2	3.9	12.9
SCORPAENIDAE(FAMILY)	5.	1.1	19.6	64.4
INOPSETTA ISCHYRA	1.	0.2	3.9	12.9
PLATICHTHYS STELLATUS	1.	0.2	3.9	12.9
TOTAL	441.	100.0	1729.4	5680.1

TABLE:	119	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	5 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	39	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	315 M3
POSITION:	49 11.6 N 123 34.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	59 . 31	BT/XBT NUMBER:	11	PLANKTON CONC.:	
BOTTOM DEPTH:	341 M	TIME OF TOW:	0906 HR	ALIQUOT:	
		DEPTH OF TOW:	331 M	S.H.F.:	10.50

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	7.1	12.7	42.0
MERLUCCIUS PRODUCTUS	47.	83.9	149.2	493.5
THERAGRA CHALCOGRAMMA	5.	8.9	15.9	52.5
TOTAL	56.	100.0	177.8	588.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	35.	16.0	111.1	367.5
LEUROGLOSSUS STILBIUS	42.	19.2	133.3	441.0
MERLUCCIUS PRODUCTUS	130.	59.4	412.7	1365.0
THERAGRA CHALCOGRAMMA	1.	0.5	3.2	10.5
SCORPAENIDAE(FAMILY)	10.	4.6	31.7	105.0
INOPSETTA ISCHYRA	1.	0.5	3.2	10.5
TOTAL	219.	100.0	695.2	2299.5

TABLE:	120	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	40	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	323 M3
POSITION:	49 13.3 N 123 37.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 31	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	375 M	TIME OF TOW:	0955 HR	ALIQUOT:	
		DEPTH OF TOW:	365 M	S.H.F.:	11.32

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	17.9	21.7	79.2
MERLUCCIUS PRODUCTUS	29.	74.4	89.8	328.3
THERAGRA CHALCOGRAMMA	3.	7.7	9.3	34.0
TOTAL	39.	100.0	120.7	441.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	3.	3.1	9.3	34.0
LEUROGLOSSUS STILBIUS	21.	21.9	65.0	237.7
MERLUCCIUS PRODUCTUS	66.	68.8	204.3	747.1
THERAGRA CHALCOGRAMMA	2.	2.1	6.2	22.6
SCORPAENIDAE(FAMILY)	4.	4.2	12.4	45.3
TOTAL	96.	100.0	297.2	1086.7

TABLE:	121	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	41	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.5 C	VOL. FILTERED:	336 M3
POSITION:	49 14.2 N 123 33.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	60 . 28	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	350 M	TIME OF TOW:	1047 HR	ALIQUOT:	
		DEPTH OF TOW:	340 M	S.H.F.:	10.12

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	1.3	3.0	10.1
LEUROGLOSSUS STILBIUS	9.	11.8	26.8	91.1
MERLUCCIUS PRODUCTUS	60.	78.9	178.6	607.2
THERAGRA CHALCOGRAMMA	6.	7.9	17.9	60.7
TOTAL	76.	100.0	226.2	769.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	4.	2.7	11.9	40.5
LEUROGLOSSUS STILBIUS	42.	28.0	125.0	425.0
MERLUCCIUS PRODUCTUS	99.	66.0	294.6	1001.9
THERAGRA CHALCOGRAMMA	1.	0.7	3.0	10.1
SCORPAENIDAE(FAMILY)	4.	2.7	11.9	40.5
TOTAL	150.	100.0	446.4	1518.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PARALIPARIS DEANI	1.	100.0	3.0	10.1
TOTAL	1.	100.0	3.0	10.1

TABLE:	122	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	42	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.2 C	VOL. FILTERED:	210 M3
POSITION:	49 11.6 N 123 28.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	300 M	TIME OF TOW:	1155 HR	ALIQUOT:	
		DEPTH OF TOW:	290 M	S.H.F.:	13.80

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	11.4	23.8	69.0
MERLUCCIUS PRODUCTUS	35.	79.5	166.7	483.0
THERAGRA CHALCOGRAMMA	4.	9.1	19.0	55.2
TOTAL	44.	100.0	209.5	607.2

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	117.	52.7	557.1	1614.6
LEUROGLOSSUS STILBIUS	40.	18.0	190.5	552.0
MERLUCCIUS PRODUCTUS	49.	22.1	233.3	676.2
THERAGRA CHALCOGRAMMA	1.	0.5	4.8	13.8
SCORPAENIDAE(FAMILY)	15.	6.8	71.4	207.0
TOTAL	222.	100.0	1057.1	3063.6

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	50.0	4.8	13.8
NECTOLIPARIS PELAGICUS	1.	50.0	4.8	13.8
TOTAL	2.	100.0	9.5	27.6

TABLE:	123	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	43	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.9 C	VOL. FILTERED:	219 M3
POSITION:	49 9.9 N 123 24.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 29	BT/XBT NUMBER:	12	PLANKTON CONC.:	
BOTTOM DEPTH:	233 M	TIME OF TOW:	1253 HR	ALIQUOT:	
		DEPTH OF TOW:	223 M	S.H.F.:	10.16

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	3.	10.7	13.7	30.5
LEUROGLOSSUS STILBIUS	3.	10.7	13.7	30.5
MERLUCCIUS PRODUCTUS	16.	57.1	73.1	162.6
THERAGRA CHALCOGRAMMA	5.	17.9	22.8	50.8
REINHARDTIUS HIPPOGLOSSOIDES	1.	3.6	4.6	10.2
TOTAL	28.	100.0	127.9	284.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	141.	76.6	643.8	1432.6
LEUROGLOSSUS STILBIUS	22.	12.0	100.5	223.5
MERLUCCIUS PRODUCTUS	16.	8.7	73.1	162.6
BROSMOPHYCIS MARGINATA	1.	0.5	4.6	10.2
SCORPAENIDAE(FAMILY)	3.	1.6	13.7	30.5
PLATICHTHYS STELLATUS	1.	0.5	4.6	10.2
TOTAL	184.	100.0	840.2	1869.4

TABLE:	124	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	44	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.9 C	VOL. FILTERED:	230 M3
POSITION:	49 12.9 N 123 23.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	54 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	283 M	TIME OF TOW:	1337 HR	ALIQUOT:	
		DEPTH OF TOW:	273 M	S.H.F.:	11.87

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	7.1	8.7	23.7
LEUROGLOSSUS STILBIUS	1.	3.6	4.3	11.9
MERLUCCIUS PRODUCTUS	18.	64.3	78.3	213.7
THERAGRA CHALCOGRAMMA	5.	17.9	21.7	59.3
PLEURONICHTHYS COENOSUS	2.	7.1	8.7	23.7
TOTAL	28.	100.0	121.7	332.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	53.	49.5	230.4	629.1
LEUROGLOSSUS STILBIUS	24.	22.4	104.3	284.9
MERLUCCIUS PRODUCTUS	27.	25.2	117.4	320.5
GOBIIDAE(FAMILY)	1.	0.9	4.3	11.9
SCORPAENIDAE(FAMILY)	1.	0.9	4.3	11.9
PLATICHTHYS STELLATUS	1.	0.9	4.3	11.9
TOTAL	107.	100.0	465.2	1270.1

TABLE:	125	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	45	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.6 C	VOL. FILTERED:	261 M3
POSITION:	49 14.6 N 123 27.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	57 . 26	BT/XBT NUMBER:	13	PLANKTON CONC.:	
BOTTOM DEPTH:	279 M	TIME OF TOW:	1425 HR	ALIQUOT:	
		DEPTH OF TOW:	258 M	S.H.F.:	9.87

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	6.	11.8	23.0	59.2
LEUROGLOSSUS STILBIUS	5.	9.8	19.2	49.3
MERLUCCIUS PRODUCTUS	34.	66.7	130.3	335.6
THERAGRA CHALCOGRAMMA	6.	11.8	23.0	59.2
TOTAL	51.	100.0	195.4	503.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	58.	44.6	222.2	572.5
LEUROGLOSSUS STILBIUS	28.	21.5	107.3	276.4
MERLUCCIUS PRODUCTUS	35.	26.9	134.1	345.4
THERAGRA CHALCOGRAMMA	1.	0.8	3.8	9.9
SCORPAENIDAE(FAMILY)	8.	6.2	30.7	79.0
TOTAL	130.	100.0	498.1	1283.1

TABLE:	126	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	46	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	27/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.2 C	VOL. FILTERED:	230 M3
POSITION:	49 16.5 N 123 23.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 23	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	251 M	TIME OF TOW:	1505 HR	ALIQUOT:	
		DEPTH OF TOW:	229 M	S.H.F.:	9.97

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	24.	51.1	104.3	239.3
LEUROGLOSSUS STILBIUS	5.	10.6	21.7	49.9
MERLUCCIUS PRODUCTUS	16.	34.0	69.6	159.5
THERAGRA CHALCOGRAMMA	2.	4.3	8.7	19.9
TOTAL	47.	100.0	204.3	468.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	98.	64.1	426.1	977.1
LEUROGLOSSUS STILBIUS	29.	19.0	126.1	289.1
MERLUCCIUS PRODUCTUS	22.	14.4	95.7	219.3
SCORPAENIDAE(FAMILY)	4.	2.6	17.4	39.9
TOTAL	153.	100.0	665.2	1525.4

TABLE: 127	WIND DIRECTION: 315 DEG	TOW SPEED: 1 MPS	
CRUISE: SG 81-10	WIND VELOCITY: 1 MPS	TYPE OF TOW: OBLIQUE	
SAMPLE NO.: 47	WAVE HEIGHT:	GEAR TYPE: BONGO .25 M2	
DATE: 27/ 5/81	SWELL HEIGHT: 0 M	MESH SIZE: .351 MM	
VESSEL: CALIGUS	SURFACE TEMP: 15.9 C	VOL. FILTERED: 200 M3	
POSITION: 49 19.0 N 123 20.8 W	STD NUMBER:	DISP. VOLUME:	
GRID POSITION: 56 . 20	BT/XBT NUMBER: 14	PLANKTON CONC.:	
BOTTOM DEPTH: 210 M	TIME OF TOW: 1548 HR	ALIQUOT:	
	DEPTH OF TOW: 202 M	S.H.F.: 10.08	

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	9.	60.0	45.0	90.7
LEUROGLOSSUS STILBIUS	1.	6.7	5.0	10.1
MERLUCCIUS PRODUCTUS	2.	13.3	10.0	20.2
THERAGRA CHALCOGRAMMA	3.	20.0	15.0	30.2
TOTAL	15.	100.0	75.0	151.2

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	72.	54.5	360.0	725.8
LEUROGLOSSUS STILBIUS	41.	31.1	205.0	413.3
MERLUCCIUS PRODUCTUS	14.	10.6	70.0	141.1
THERAGRA CHALCOGRAMMA	1.	0.8	5.0	10.1
BATHYMASTERIDAE(FAMILY)	1.	0.8	5.0	10.1
SCORPAENIDAE(FAMILY)	3.	2.3	15.0	30.2
TOTAL	132.	100.0	660.0	1330.6

TABLE:	128	WIND DIRECTION:	36C DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	48	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.6 C	VOL. FILTERED:	165 M3
POSITION:	49 14.9 N 123 19.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 23	BT/XBT NUMBER:	15	PLANKTON CONC.:	
BOTTOM DEPTH:	196 M	TIME OF TOW:	0631 HR	ALIQUOT:	
		DEPTH OF TOW:	186 M	S.H.F.:	11.27

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	3.	50.0	18.2	33.8
THERAGRA CHALCOGRAMMA	3.	50.0	18.2	33.8
TOTAL	6.	100.0	36.4	67.6

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	82.	66.1	497.0	924.1
LEUROGLOSSUS STILBIUS	38.	30.6	230.3	428.3
MERLUCCIUS PRODUCTUS	2.	1.6	12.1	22.5
THERAGRA CHALCOGRAMMA	1.	0.8	6.1	11.3
PLATICHTHYS STELLATUS	1.	0.8	6.1	11.3
TOTAL	124.	100.0	751.5	1397.5

TABLE: 129
CRUISE: SG 81-10
SAMPLE NO.: 49
DATE: 28/ 5/81
VESSEL: CALIGUS
POSITION: 49 11.3 N 123 19.6 W
GRID POSITION: 51 . 26
BOTTOM DEPTH: 169 M

WIND DIRECTION: 360 DEG
WIND VELOCITY: 2 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 13.2 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 0725 HR
DEPTH OF TOW: 159 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 142 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 11.18

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	66.7	14.1	22.4
THERAGRA CHALCOGRAMMA	1.	33.3	7.0	11.2
TOTAL	3.	100.0	21.1	33.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	92.	72.4	647.9	1028.6
LEUROGLOSSUS STILBIUS	32.	25.2	225.4	357.8
MERLUCCIUS PRODUCTUS	3.	2.4	21.1	33.5
TOTAL	127.	100.0	894.4	1419.9

TABLE:	130	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	50	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.3 C	VOL. FILTERED:	160 M3
POSITION:	49 7.7 N 123 19.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	49 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	151 M	TIME OF TOW:	0811 HR	ALIQUOT:	
		DEPTH OF TOW:	141 M	S.H.F.:	8.84

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
REINHARDTIUS HIPPOGLOSSOIDES	1.	100.0	6.3	8.8
TOTAL	1.	100.0	6.3	8.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	359.	89.1	2243.8	3173.6
LEUROGLOSSUS STILBIUS	38.	9.4	237.5	335.9
MERLUCCIUS PRODUCTUS	4.	1.0	25.0	35.4
SCORPAENIDAE(FAMILY)	2.	0.5	12.5	17.7
TOTAL	403.	100.0	2518.8	3562.5

TABLE:	131	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	51	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.4 C	VOL. FILTERED:	243 M3
POSITION:	49 6.3 N 123 24.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	51 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	252 M	TIME OF TOW:	0856 HR	ALIQUOT:	
		DEPTH OF TOW:	240 M	S.H.F.:	9.87

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	4.4	12.3	29.6
MERLUCCIUS PRODUCTUS	65.	95.6	267.5	641.5
TOTAL	68.	100.0	279.8	671.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	95.	54.3	390.9	937.6
LEUROGLOSSUS STILBIUS	28.	16.0	115.2	276.4
MERLUCCIUS PRODUCTUS	43.	24.6	177.0	424.4
GOBIIDAE(FAMILY)	1.	0.6	4.1	9.9
SCORPAENIDAE(FAMILY)	8.	4.6	32.9	79.0
TOTAL	175.	100.0	720.2	1727.3

TABLE:	132	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	52	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	224 M3
POSITION:	49 3.8 N 123 21.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	48 . 33	BT/XBT NUMBER:	16	PLANKTON CONC.:	
BOTTOM DEPTH:	225 M	TIME OF TOW:	0938 HR	ALIQUOT:	
		DEPTH OF TOW:	192 M	S.H.F.:	8.59

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	14.3	4.5	8.6
MERLUCCIUS PRODUCTUS	3.	42.9	13.4	25.8
THERAGRA CHALCOGRAMMA	3.	42.9	13.4	25.8
TOTAL	7.	100.0	31.3	60.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	209.	79.8	933.0	1795.3
LEUROGLOSSUS STILBIUS	44.	16.8	196.4	378.0
MERLUCCIUS PRODUCTUS	6.	2.3	26.8	51.5
SCORPAENIDAE(FAMILY)	2.	0.8	8.9	17.2
PLATICHTHYS STELLATUS	1.	0.4	4.5	8.6
TOTAL	262.	100.0	1169.6	2250.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
STENOBRACHIUS LEUCOPSARUS	1.	100.0	4.5	8.6
TOTAL	1.	100.0	4.5	8.6

TABLE:	133	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	53	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.7 C	VOL. FILTERED:	251 M3
POSITION:	49 3.3 N 123 26.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	50 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	313 M	TIME OF TOW:	1015 HR	ALIQUOT:	
		DEPTH OF TOW:	310 M	S.H.F.:	12.33

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	15.5	43.8	135.6
MERLUCCIUS PRODUCTUS	58.	81.7	231.1	715.1
THERAGRA CHALCOGRAMMA	2.	2.8	8.0	24.7
TOTAL	71.	100.0	282.9	875.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	77.	47.0	306.8	949.4
LEUROGLOSSUS STILBIUS	21.	12.8	83.7	258.9
MERLUCCIUS PRODUCTUS	61.	37.2	243.0	752.1
THERAGRA CHALCOGRAMMA	2.	1.2	8.0	24.7
SCORPAENIDAE(FAMILY)	3.	1.8	12.0	37.0
TOTAL	164.	100.0	653.4	2022.1

TABLE:	134	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	54	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.5 C	VOL. FILTERED:	254 M3
POSITION:	49 4.9 N 123 29.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 35	BT/XBT NUMBER:	17	PLANKTON CONC.:	
BOTTOM DEPTH:	302 M	TIME OF TOW:	1100 HR	ALIQUOT:	
		DEPTH OF TOW:	292 M	S.H.F.:	11.51

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	56.	98.2	220.5	644.6
THERAGRA CHALCOGRAMMA	1.	1.8	3.9	11.5
TOTAL	57.	100.0	224.4	656.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.3	3.9	11.5
THALEICHTHYS PACIFICUS	254.	76.3	1000.0	2923.5
MERLUCCIUS PRODUCTUS	64.	19.2	252.0	736.6
THERAGRA CHALCOGRAMMA	2.	0.6	7.9	23.0
SCORPAENIDAE(FAMILY)	8.	2.4	31.5	92.1
LYOPSETTA EXILIS	1.	0.3	3.9	11.5
PLATICHTHYS STELLATUS	3.	0.9	11.8	34.5
TOTAL	333.	100.0	1311.0	3832.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	100.0	3.9	11.5
TOTAL	1.	100.0	3.9	11.5

TABLE:	135	WIND DIRECTION:	360 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	55	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.7 C	VOL. FILTERED:	179 M3
POSITION:	49 3.6 N 123 34.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	55 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	197 M	TIME OF TOW:	1148 HR	ALIQUOT:	
		DEPTH OF TOW:	184 M	S.H.F.:	10.26

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	3.8	5.6	10.3
LEUROGLOSSUS STILBIUS	2.	7.7	11.2	20.5
MERLUCCIUS PRODUCTUS	19.	73.1	106.1	194.9
THERAGRA CHALCOGRAMMA	4.	15.4	22.3	41.0
TOTAL	26.	100.0	145.3	266.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	18.	17.0	100.6	184.7
LEUROGLOSSUS STILBIUS	34.	32.1	189.9	348.8
MERLUCCIUS PRODUCTUS	45.	42.5	251.4	461.7
SCORPAENIDAE(FAMILY)	8.	7.5	44.7	82.1
PLATICHTHYS STELLATUS	1.	0.9	5.6	10.3
TOTAL	106.	100.0	592.2	1087.6

TABLE:	136	WIND DIRECTION:	360 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	56	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.7 C	VOL. FILTERED:	236 M3
POSITION:	49 1.9 N 123 31.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	52 . 38	BT/XBT NUMBER:	18	PLANKTON CONC.:	
BOTTOM DEPTH:	246 M	TIME OF TOW:	1227 HR	ALIQUOT:	
		DEPTH OF TOW:	236 M	S.H.F.:	10.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	19.0	50.8	120.1
MERLUCCIUS PRODUCTUS	45.	71.4	190.7	450.5
THERAGRA CHALCOGRAMMA	6.	9.5	25.4	60.1
TOTAL	63.	100.0	266.9	630.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	264.	74.6	1118.6	2642.6
LEUROGLOSSUS STILBIUS	19.	5.4	80.5	190.2
MERLUCCIUS PRODUCTUS	60.	16.9	254.2	600.6
THERAGRA CHALCOGRAMMA	3.	0.8	12.7	30.0
SCORPAENIDAE(FAMILY)	8.	2.3	33.9	80.1
TOTAL	354.	100.0	1500.0	3543.5

TABLE:	137	WIND DIRECTION:	360 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	57	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	18.2 C	VOL. FILTERED:	194 M3
POSITION:	49 0.2 N 123 27.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	49 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	232 M	TIME OF TOW:	1310 HR	ALIQUOT:	
		DEPTH OF TOW:	222 M	S.H.F.:	11.43

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	10.	15.2	51.5	114.3
MERLUCCIUS PRODUCTUS	50.	75.8	257.7	571.5
THERAGRA CHALCOGRAMMA	6.	9.1	30.9	68.6
TOTAL	66.	100.0	340.2	754.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	366.	88.4	1886.6	4183.4
LEUROGLOSSUS STILBIUS	12.	2.9	61.9	137.2
MERLUCCIUS PRODUCTUS	29.	7.0	149.5	331.5
THERAGRA CHALCOGRAMMA	1.	0.2	5.2	11.4
SCORPAENIDAE(FAMILY)	5.	1.2	25.8	57.2
COTTIDAE(FAMILY)	1.	0.2	5.2	11.4
TOTAL	414.	100.0	2134.0	4732.0

TABLE:	138	WIND DIRECTION:	360 DEG			TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS			TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	58	WAVE HEIGHT:				GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M			MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	18.3 C			VOL. FILTERED:	191 M3
POSITION:	48 57.7 N 123 24.4 W	STD NUMBER:				DISP. VOLUME:	
GRID POSITION:	46 . 39	BT/XBT NUMBER:	19			PLANKTON CONC.:	
BOTTOM DEPTH:	202 M.	TIME OF TOW:	1351 HR			ALIQUOT:	
		DEPTH OF TOW:	185 M			S.H.F.:	9.70

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	8.3	5.2	9.7
MERLUCCIUS PRODUCTUS	11.	91.7	57.6	106.7
TOTAL	12.	100.0	62.8	116.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	116.	71.6	[illegible]07.3	1125.2
LEUROGLOSSUS STILBIUS	14.	8.6	73.3	135.8
MERLUCCIUS PRODUCTUS	25.	15.4	130.9	242.5
SCORPAENIDAE(FAMILY)	5.	3.1	26.2	48.5
PLATICHTHYS STELLATUS	2.	1.2	10.5	19.4
TOTAL	162.	100.0	848.2	1571.4

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	5.2	9.7
TOTAL	1.	100.0	5.2	9.7

TABLE:	139	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	59	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.5 C	VOL. FILTERED:	186 M3
POSITION:	48 55.6 N 123 21.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	43 . 39	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	176 M	TIME OF TOW:	1425 HR	ALIQUOT:	
		DEPTH OF TOW:	160 M	S.H.F.:	8.60

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	50.0	10.8	17.2
THERAGRA CHALCOGRAMMA	1.	25.0	5.4	8.6
PLEURONICHTHYS COENOSUS	1.	25.0	5.4	8.6
TOTAL	4.	100.0	21.5	34.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	190.	75.7	1021.5	1634.0
LEUROGLOSSUS STILBIUS	22.	8.8	118.3	189.2
MERLUCCIUS PRODUCTUS	31.	12.4	166.7	266.6
SCORPAENIDAE(FAMILY)	8.	3.2	43.0	68.8
TOTAL	251.	100.0	1349.5	2158.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	5.4	8.6
TOTAL	1.	100.0	5.4	8.6

TABLE:	140	WIND DIRECTION:		TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:		TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	60	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.4 C	VOL. FILTERED:	168 M3
POSITION:	48 57.7 N 123 18.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	43 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	185 M	TIME OF TOW:	1505 HR	ALIQUOT:	
		DEPTH OF TOW:	181 M	S.H.F.:	10.79

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	22.2	23.8	43.2
MERLUCCIUS PRODUCTUS	11.	61.1	65.5	118.7
THERAGRA CHALCOGRAMMA	3.	16.7	17.9	32.4
TOTAL	18.	100.0	107.1	194.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	13.	28.9	77.4	140.3
MERLUCCIUS PRODUCTUS	24.	53.3	142.9	259.0
THERAGRA CHALCOGRAMMA	1.	2.2	6.0	10.8
SCORPAENIDAE(FAMILY)	4.	8.9	23.8	43.2
COTTIDAE(FAMILY)	1.	2.2	6.0	10.8
PLATICHTHYS STELLATUS	2.	4.4	11.9	21.6
TOTAL	45.	100.0	267.9	485.6

TABLE:	141	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	61	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.0 C	VOL. FILTERED:	189 M3
POSITION:	49 0.2 N 123 21.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	46 . 36	BT/XBT NUMBER:	20	PLANKTON CONC.:	
BOTTOM DEPTH:	229 M	TIME OF TOW:	1545 HR	ALIQUOT:	
		DEPTH OF TOW:	221 M	S.H.F.:	11.67

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	9.	23.1	47.6	105.0
MERLUCCIUS PRODUCTUS	24.	61.5	127.0	280.1
THERAGRA CHALCOGRAMMA	6.	15.4	31.7	70.0
TOTAL	39.	100.0	206.3	455.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	207.	78.1	1095.2	2415.7
LEUROGLOSSUS STILBIUS	20.	7.5	105.8	233.4
MERLUCCIUS PRODUCTUS	34.	12.8	179.9	396.8
THERAGRA CHALCOGRAMMA	1.	0.4	5.3	11.7
BATHYMASTERIDAE(FAMILY)	1.	0.4	5.3	11.7
SCORPAENIDAE(FAMILY)	2.	0.8	10.6	23.3
TOTAL	265.	100.0	1402.1	3092.5

TABLE:	142	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	62	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.3 C	VOL. FILTERED:	114 M3
POSITION:	49 1.6 N 123 16.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	44 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	125 M	TIME OF TOW:	1630 HR	ALIQUOT:	
		DEPTH OF TOW:	116 M	S.H.F.:	10.14

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	150.	87.2	1315.8	1521.0
LEUROGLOSSUS STILBIUS	20.	11.6	175.4	202.8
BATHYMASTERIDAE(FAMILY)	2.	1.2	17.5	20.3
TOTAL	172.	100.0	1508.8	1744.1

TABLE:	143	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	63	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.5 C	VOL. FILTERED:	146 M3
POSITION:	48 58.2 N 123 14.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	41 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	147 M	TIME OF TOW:	1726 HR	ALIQUOT:	
		DEPTH OF TOW:	140 M	S.H.F.:	9.60

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	2.	100.0	13.7	19.2
TOTAL	2.	100.0	13.7	19.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.9	6.8	9.6
THALEICHTHYS PACIFICUS	29.	54.7	198.6	278.4
LEUROGLOSSUS STILBIUS	18.	34.0	123.3	172.8
MERLUCCIUS PRODUCTUS	4.	7.5	27.4	38.4
THERAGRA CHALCOGRAMMA	1.	1.9	6.8	9.6
TOTAL	53.	100.0	363.0	508.8

TABLE:	144	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	64	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.3 C	VOL. FILTERED:	154 M3
POSITION:	48 56.0 N 123 15.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	40 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	149 M	TIME OF TOW:	1752 HR	ALIQUOT:	
		DEPTH OF TOW:	140 M	S.H.F.:	9.07

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	22.2	13.0	18.1
LEUROGLOSSUS STILBIUS	1.	11.1	6.5	9.1
MERLUCCIUS PRODUCTUS	2.	22.2	13.0	18.1
THERAGRA CHALCOGRAMMA	4.	44.4	26.0	36.3
TOTAL	9.	100.0	58.4	81.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	50.	52.6	324.7	453.5
LEUROGLOSSUS STILBIUS	26.	27.4	168.8	235.8
MERLUCCIUS PRODUCTUS	14.	14.7	90.9	127.0
THERAGRA CHALCOGRAMMA	5.	5.3	32.5	45.3
TOTAL	95.	100.0	616.9	861.6

TABLE:	145	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	65	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	28/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	17.3 C	VOL. FILTERED:	151 M3
POSITION:	48 54.4 N 123 16.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	40 . 39	BT/XBT NUMBER:	21	PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	1825 HR	ALIQUOT:	
		DEPTH OF TOW:	181 M	S.H.F.:	11.99

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	25.0	6.6	12.0
MERLUCCIUS PRODUCTUS	3.	75.0	19.9	36.0
TOTAL	4.	100.0	26.5	48.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	213.	85.2	1410.6	2553.9
LEUROGLOSSUS STILBIUS	10.	4.0	66.2	119.9
MERLUCCIUS PRODUCTUS	19.	7.6	125.8	227.8
THERAGRA CHALCOGRAMMA	1.	0.4	6.6	12.0
BATHYMASTERIDAE(FAMILY)	3.	1.2	19.9	36.0
SCORPAENIDAE(FAMILY)	4.	1.6	26.5	48.0
TOTAL	250.	100.0	1655.6	2997.5

TABLE:	146	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	66	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.0 C	VOL. FILTERED:	177 M3
POSITION:	48 52.3 N 123 13.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	37 . 39	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	208 M	TIME OF TOW:	0519 HR	ALIQUOT:	
		DEPTH OF TOW:	203 M	S.H.F.:	11.49

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	67.	54.9	378.5	769.8
LEUROGLOSSUS STILBIUS	22.	18.0	124.3	252.8
MERLUCCIUS PRODUCTUS	20.	16.4	113.0	229.8
SCORPAENIDAE(FAMILY)	10.	8.2	56.5	114.9
COTTIDAE(FAMILY)	1.	0.8	5.6	11.5
CYCLOPTERIDAE(FAMILY)	1.	0.8	5.6	11.5
REINHARDTIUS HIPPOGLOSSOIDES	1.	0.8	5.6	11.5
TOTAL	122.	100.0	689.3	1401.8

TABLE:	147	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	67	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.0 C	VOL. FILTERED:	124 M3
POSITION:	48 53.8 N 123 10.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	36 . 37	BT/XBT NUMBER:	22	PLANKTON CONC.:	
BOTTOM DEPTH:	128 M	TIME OF TOW:	0600 HR	ALIQUOT:	
		DEPTH OF TOW:	121 M	S.H.F.:	9.76

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	100.0	8.1	9.8
TOTAL	1.	100.0	8.1	9.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	18.	40.0	145.2	175.7
LEUROGLOSSUS STILBIUS	19.	42.2	153.2	185.4
MERLUCCIUS PRODUCTUS	7.	15.6	56.5	68.3
SCORPAENIDAE(FAMILY)	1.	2.2	8.1	9.8
TOTAL	45.	100.0	362.9	439.2

TABLE:	148	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	68	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	183 M3
POSITION:	48 50.6 N 123 9.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	34 . 39	BT/XBT NUMBER:	23	PLANKTON CONC.:	
BOTTOM DEPTH:	180 M	TIME OF TOW:	0630 HR	ALIQUOT:	
		DEPTH OF TOW:	169 M	S.H.F.:	9.26

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.3	5.5	9.3
THALEICHTHYS PACIFICUS	277.	80.8	1513.7	2565.0
LEUROGLOSSUS STILBIUS	24.	7.0	131.1	222.2
MERLUCCIUS PRODUCTUS	37.	10.8	202.2	342.6
THERAGRA CHALCOGRAMMA	1.	0.3	5.5	9.3
SCORPAENIDAE(FAMILY)	3.	0.9	16.4	27.8
TOTAL	343.	100.0	1874.3	3176.2

TABLE:	149	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	69	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.3 C	VOL. FILTERED:	134 M3
POSITION:	48 49.1 N 123 7.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	32 . 40	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	137 M	TIME OF TOW:	0655 HR	ALIQUOT:	
		DEPTH OF TOW:	134 M	S.H.F.:	10.01

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	180.	78.6	1343.3	1801.8
LEUROGLOSSUS STILBIUS	21.	9.2	156.7	210.2
MERLUCCIUS PRODUCTUS	22.	9.6	164.2	220.2
SCORPAENIDAE(FAMILY)	6.	2.6	44.8	60.1
TOTAL	229.	100.0	1709.0	2292.3

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
ODONTOPYXIS TRISPINOSA	1.	100.0	7.5	10.0
TOTAL	1.	100.0	7.5	10.0

TABLE:	150	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	70	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.1 C	VOL. FILTERED:	198 M3
POSITION:	48 49.7 N 123 5.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	31 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	186 M	TIME OF TOW:	0722 HR	ALIQUOT:	
		DEPTH OF TOW:	179 M	S.H.F.:	9.04

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	265.	80.1	1338.4	2395.6
LEUROGLOSSUS STILBIUS	33.	10.0	166.7	298.3
MERLUCCIUS PRODUCTUS	21.	6.3	106.1	189.8
THERAGRA CHALCOGRAMMA	5.	1.5	25.3	45.2
BATHYMASTERIDAE(FAMILY)	1.	0.3	5.1	9.0
SCORPAENIDAE(FAMILY)	5.	1.5	25.3	45.2
PLATICHTHYS STELLATUS	1.	0.3	5.1	9.0
TOTAL	331.	100.0	1671.7	2992.2

TABLE:	151	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	71	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.3 C	VOL. FILTERED:	203 M3
POSITION:	48 51.8 N 123 2.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	31 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	178 M	TIME OF TOW:	0757 HR	ALIQUOT:	
		DEPTH OF TOW:	164 M	S.H.F.:	8.08

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	66.7	9.9	16.2
MERLUCCIUS PRODUCTUS	1.	33.3	4.9	8.1
TOTAL	3.	100.0	14.8	24.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	53.	48.2	261.1	428.2
LEUROGLOSSUS STILBIUS	44.	40.0	216.7	355.5
MERLUCCIUS PRODUCTUS	12.	10.9	59.1	97.0
THERAGRA CHALCOGRAMMA	1.	0.9	4.9	8.1
TOTAL	110.	100.0	541.9	888.8

TABLE:	152	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	72	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.5 C	VOL. FILTERED:	191 M3
POSITION:	48 48.6 N 123 2.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	29 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	173 M	TIME OF TOW:	0847 HR	ALIQUOT:	
		DEPTH OF TOW:	168 M	S.H.F.:	8.79

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	49.	44.5	256.5	430.7
LEUROGLOSSUS STILBIUS	44.	40.0	230.4	386.8
MERLUCCIUS PRODUCTUS	17.	15.5	89.0	149.4
TOTAL	110.	100.0	575.9	966.9

TABLE:	153	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	73	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.5 C	VOL. FILTERED:	173 M3
POSITION:	48 49.3 N 122 59.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	28 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	213 M	TIME OF TOW:	0935 HR	ALIQUOT:	
		DEPTH OF TOW:	202 M	S.H.F.:	11.66

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PLEURONICHTHYS COENOSUS	1.	100.0	5.8	11.7
TOTAL	1.	100.0	5.8	11.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	44.	37.3	254.3	513.0
LEUROGLOSSUS STILBIUS	40.	33.9	231.2	466.4
MERLUCCIUS PRODUCTUS	30.	25.4	173.4	349.8
SCORPAENIDAE(FAMILY)	4.	3.4	23.1	46.6
TOTAL	118.	100.0	682.1	1375.9

TABLE:	154	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	74	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	190 M3
POSITION:	48 47.4 N 122 58.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	26 . 38	BT/XBT NUMBER:	24	PLANKTON CONC.:	
BOTTOM DEPTH:	252 M	TIME OF TOW:	1027 HR	ALIQUOT:	
		DEPTH OF TOW:	236 M	S.H.F.:	12.40

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	100.0	5.3	12.4
TOTAL	1.	100.0	5.3	12.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	24.	35.8	126.3	297.6
LEUROGLOSSUS STILBIUS	20.	29.9	105.3	248.0
MERLUCCIUS PRODUCTUS	17.	25.4	89.5	210.8
SCORPAENIDAE(FAMILY)	6.	9.0	31.6	74.4
TOTAL	67.	100.0	352.6	830.8

TABLE:	155	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	75	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.8 C	VOL. FILTERED:	186 M3
POSITION:	48 48.5 N 122 55.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	25 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	196 M	TIME OF TOW:	1100 HR	ALIQUOT:	
		DEPTH OF TOW:	185 M	S.H.F.:	9.95

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PLEURONICHTHYS COENOSUS	4.	100.0	21.5	39.8
TOTAL	4.	100.0	21.5	39.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	330.	95.1	1774.2	3283.5
LEUROGLOSSUS STILBIUS	6.	1.7	32.3	59.7
MERLUCCIUS PRODUCTUS	4.	1.2	21.5	39.8
THERAGRA CHALCOGRAMMA	1.	0.3	5.4	9.9
SCORPAENIDAE(FAMILY)	4.	1.2	21.5	39.8
CYCLOPTERIDAE(FAMILY)	1.	0.3	5.4	9.9
INOPSETTA ISOLEPIS	1.	0.3	5.4	9.9
TOTAL	347.	100.0	1865.6	3452.6

TABLE:	156	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	76	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.6 C	VOL. FILTERED:	164 M3
POSITION:	48 50.7 N 122 54.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	26 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	175 M	TIME OF TOW:	1155 HR	ALIQUOT:	
		DEPTH OF TOW:	171 M	S.H.F.:	10.40

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	98.	86.0	597.6	1019.2
LEUROGLOSSUS STILBIUS	8.	7.0	48.8	83.2
MERLUCCIUS PRODUCTUS	7.	6.1	42.7	72.8
SCORPAENIDAE(FAMILY)	1.	0.9	6.1	10.4
TOTAL	114.	100.0	695.1	1185.6

TABLE: 157
CRUISE: SG 81-10
SAMPLE NO.: 77
DATE: 29/ 5/81
VESSEL: CALIGUS
POSITION: 48 51.7 N 122 58.4 W
GRID POSITION: 28 . 34
BOTTOM DEPTH: 207 M

WIND DIRECTION: 315 DEG
WIND VELOCITY: 3 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 16.2 C
STD NUMBER:
BT/XBT NUMBER: 25
TIME OF TOW: 1228 HR
DEPTH OF TOW: 207 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 180 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 11.49

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	1.	100.0	5.6	11.5
TOTAL	1.	100.0	5.6	11.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	46.	83.6	255.6	528.5
LEUROGLOSSUS STILBIUS	2.	3.6	11.1	23.0
MERLUCCIUS PRODUCTUS	4.	7.3	22.2	46.0
THERAGRA CHALCOGRAMMA	1.	1.8	5.6	11.5
SCORPAENIDAE(FAMILY)	1.	1.8	5.6	11.5
PLATICHTHYS STELLATUS	1.	1.8	5.6	11.5
TOTAL	55.	100.0	305.6	631.9

TABLE:	153	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	78	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	113 M3
POSITION:	48 54.0 N 122 56.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	29 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	118 M	TIME OF TOW:	1303 HR	ALIQUOT:	
		DEPTH OF TOW:	106 M	S.H.F.:	9.35

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	33.3	8.8	9.4
REINHARDTIUS HIPPOGLOSSOIDES	2.	66.7	17.7	18.7
TOTAL	3.	100.0	26.5	28.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	2.4	8.8	9.4
THALEICHTHYS PACIFICUS	36.	85.7	318.6	336.6
LEUROGLOSSUS STILBIUS	4.	9.5	35.4	37.4
CYCLOPTERIDAE(FAMILY)	1.	2.4	8.8	9.4
TOTAL	42.	100.0	371.7	392.7

TABLE: 159
CRUISE: SG 81-10
SAMPLE NO.: 79
DATE: 29/ 5/81
VESSEL: CALIGUS
POSITION: 48 55.4 N 123 2.8 W
GRID POSITION: 33 . 33
BOTTOM DEPTH: 128 M

WIND DIRECTION: 315 DEG
WIND VELOCITY: 2 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 13.9 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 1350 HR
DEPTH OF TOW: 125 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 120 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 10.42

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	4.	66.7	33.3	41.7
PLEURONICHTHYS COENOSUS	2.	33.3	16.7	20.8
TOTAL	6.	100.0	50.0	62.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.7	8.3	10.4
THALEICHTHYS PACIFICUS	31.	52.5	258.3	323.0
LEUROGLOSSUS STILBIUS	16.	27.1	133.3	166.7
MERLUCCIUS PRODUCTUS	11.	18.6	91.7	114.6
TOTAL	59.	100.0	491.7	614.8

TABLE:	160	WIND DIRECTION:		TOW SPEED:	1 MPS
CRUISE:	SG 81-10	WIND VELOCITY:		TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	80	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	29/ 5/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.2 C	VOL. FILTERED:	101 M3
POSITION:	48 56.8 N 123 8.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	37 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	112 M	TIME OF TOW:	1436 HR	ALIQUOT:	
		DEPTH OF TOW:	107 M	S.H.F.:	10.57

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	1.	100.0	9.9	10.6
TOTAL	1.	100.0	9.9	10.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	2.	6.9	19.8	21.1
LEUROGLOSSUS STILBIUS	19.	65.5	188.1	200.8
MERLUCCIUS PRODUCTUS	6.	20.7	59.4	63.4
SCORPAENIDAE(FAMILY)	2.	6.9	19.8	21.1
TOTAL	29.	100.0	287.1	306.5

TABLE:	161	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	1	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.2 C	VOL. FILTERED:	303 M3
POSITION:	49 15.8 N 123 57.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	74 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	286 M	TIME OF TOW:	0420 HR	ALIQUOT:	
		DEPTH OF TOW:	274 M	S.H.F.:	9.04

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	42.1	26.4	72.3
MERLUCCIUS PRODUCTUS	10.	52.6	33.0	90.4
THERAGRA CHALCOGRAMMA	1.	5.3	3.3	9.0
TOTAL	19.	100.0	62.7	171.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	12.	10.8	39.6	108.5
LEUROGLOSSUS STILBIUS	35.	31.5	115.5	316.4
MERLUCCIUS PRODUCTUS	36.	32.4	118.8	325.4
GOBIIDAE(FAMILY)	1.	0.9	3.3	9.0
SCORPAENIDAE(FAMILY)	27.	24.3	89.1	244.1
TOTAL	111.	100.0	366.3	1003.4

TABLE: 162
CRUISE: SG 81-11
SAMPLE NO.: 2
DATE: 8/ 6/81
VESSEL: CALIGUS
POSITION: 49 16.6 N 123 50.9 W
GRID POSITION: 71 . 33
BOTTOM DEPTH: 406 M

WIND DIRECTION: 180 DEG
WIND VELOCITY: 3 MPS
WAVE HEIGHT:
SWELL HEIGHT: 1 M
SURFACE TEMP.: 11.9 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 0515 HR
DEPTH OF TOW: 381 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 361 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 10.56

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	19.	23.5	52.6	200.6
MERLUCCIUS PRODUCTUS	59	72.8	163.4	623.0
THERAGRA CHALCOGRAMMA	3.	3.7	8.3	31.7
TOTAL	81	100.0	224.4	855.4

LARVAE	TOTAL NUMBER	TAXA PCT	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.0	2.8	10.6
THALEICHTHYS PACIFICUS	15.	14.6	41.6	158.4
LEUROGLOSSUS STILBIUS	31.	30.1	85.9	327.4
MERLUCCIUS PRODUCTUS	35.	34.0	97.0	369.6
GOBIIDAE(FAMILY)	1.	1.0	2.8	10.6
SCORPAENIDAE(FAMILY)	20.	19.4	55.4	211.2
TOTAL	103.	100.0	285.3	1087.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	2.8	10.6
NECTOLIPARIS PELAGICUS	1.	50.0	2.8	10.6
TOTAL	2.	100.0	5.5	21.1

TABLE:	163	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	3	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.2 C	VOL. FILTERED:	361 M3
POSITION:	49 18.3 N 123 54.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	74 . 33	BT/XBT NUMBER:	1	PLANKTON CONC.:	
BOTTOM DEPTH:	411 M	TIME OF TOW:	0609 HR	ALIQUOT:	
		DEPTH OF TOW:	379 M	S.H.F.:	10.50

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	10.	18.5	27.7	105.0
MERLUCCIUS PRODUCTUS	44.	81.5	121.9	462.0
TOTAL	54.	100.0	149.6	567.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	11.	10.6	30.5	115.5
LEUROGLOSSUS STILBIUS	22.	21.2	60.9	231.0
MERLUCCIUS PRODUCTUS	63.	60.6	174.5	661.5
SCORPAENIDAE(FAMILY)	8.	7.7	22.2	84.0
TOTAL	104.	100.0	288.1	1092.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	2.8	10.5
LYCODAPUS MANDIBULARIS	1.	50.0	2.8	10.5
TOTAL	2.	100.0	5.5	21.0

TABLE:	164	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	4	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	332 M3
POSITION:	49 18.6 N 123 58.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	76 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	408 M	TIME OF TOW:	0712 HR	ALIQUOT:	
		DEPTH OF TOW:	408 M	S.H.F.:	12.31

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	10.0	9.0	36.9
MERLUCCIUS PRODUCTUS	26.	86.7	78.3	320.1
PLEURONICHTHYS COENOSUS	1.	3.3	3.0	12.3
TOTAL	30.	100.0	90.4	369.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	2.	4.0	6.0	24.6
LEUROGLOSSUS STILBIUS	19.	38.0	57.2	233.9
MERLUCCIUS PRODUCTUS	22.	44.0	66.3	270.8
BROSMOPHYCIS MARGINATA	1.	2.0	3.0	12.3
SCORPAENIDAE(FAMILY)	6.	12.0	18.1	73.9
TOTAL	50.	100.0	150.6	615.5

TABLE:	165	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	5	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.5 C	VOL. FILTERED:	225 M3
POSITION:	49 18.2 N 124 4.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	79 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	251 M	TIME OF TOW:	0815 HR	ALIQUOT:	
		DEPTH OF TOW:	235 M	S.H.F.:	10.45

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	33.3	35.6	83.6
MERLUCCIUS PRODUCTUS	16.	66.7	71.1	167.2
TOTAL	24.	100.0	106.7	250.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	4.	4.3	17.8	41.8
THALEICHTHYS PACIFICUS	31.	33.0	137.8	323.9
LEUROGLOSSUS STILBIUS	18.	19.1	80.0	188.1
MERLUCCIUS PRODUCTUS	29.	30.9	128.9	303.0
GOBIIDAE(FAMILY)	1.	1.1	4.4	10.4
SCORPAENIDAE(FAMILY)	10.	10.6	44.4	104.5
PARALIPARIS DEANI	1.	1.1	4.4	10.4
TOTAL	94.	100.0	417.8	982.3

TABLE:	166	WIND DIRECTION:	225 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	6	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	338 M3
POSITION:	49 20.3 N 124 1.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	79 . 34	BT/XBT NUMBER:	2	PLANKTON CONC.:	
BOTTOM DEPTH:	402 M	TIME OF TOW:	0850 HR	ALIQUOT:	
		DEPTH OF TOW:	390 M	S.H.F.:	11.52

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	9.	29.0	26.6	103.7
MERLUCCIUS PRODUCTUS	22.	71.0	65.1	253.4
TOTAL	31.	100.0	91.7	357.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	10.	9.2	29.6	115.2
LEUROGLOSSUS STILBIUS	36.	33.0	106.5	414.7
MERLUCCIUS PRODUCTUS	57.	52.3	168.6	656.6
SCORPAENIDAE(FAMILY)	6.	5.5	17.8	69.1
TOTAL	109.	100.0	322.5	1255.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	100.0	5.9	23.0
TOTAL	2.	100.0	5.9	23.0

TABLE:	167	WIND DIRECTION:	360 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	7	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	318 M3
POSITION:	49 20.3 N 124 7.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	82 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	375 M	TIME OF TOW:	0948 HR	ALIQUOT:	
		DEPTH OF TOW:	375 M	S.H.F.:	11.79

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	40.0	25.2	94.3
MERLUCCIUS PRODUCTUS	12.	60.0	37.7	141.5
TOTAL	20.	100.0	62.9	235.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	35.	71.4	110.1	412.6
LEUROGLOSSUS STILBIUS	3.	6.1	9.4	35.4
MERLUCCIUS PRODUCTUS	9.	18.4	28.3	106.1
SCORPAENIDAE(FAMILY)	2.	4.1	6.3	23.6
TOTAL	49.	100.0	154.1	577.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.1	11.8
TOTAL	1.	100.0	3.1	11.8

TABLE:	168	WIND DIRECTION:	45 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	8	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	300 M3
POSITION:	49 22.8 N 124 10.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	85 . 35	BT/XBT NUMBER:	3	PLANKTON CONC.:	
BOTTOM DEPTH:	348 M	TIME OF TOW:	1039 HR	ALIQUOT:	
		DEPTH OF TOW:	326 M	S.H.F.:	10.87

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	23.1	10.0	32.6
MERLUCCIUS PRODUCTUS	10.	76.9	33.3	108.7
TOTAL	13.	100.0	43.3	141.3

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	65.	56.0	216.7	706.5
LEUROGLOSSUS STILBIUS	13.	11.2	43.3	141.3
MERLUCCIUS PRODUCTUS	23.	19.8	76.7	250.0
BROSMOPHYCIS MARGINATA	1.	0.9	3.3	10.9
GOBIIDAE(FAMILY)	5.	4.3	16.7	54.3
SCORPAENIDAE(FAMILY)	9.	7.8	30.0	97.8
TOTAL	116.	100.0	386.7	1260.9

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	100.0	6.7	21.7
TOTAL	2.	100.0	6.7	21.7

TABLE: 169
CRUISE: SG 81-11
SAMPLE NO.: 9
DATE: 8/ 6/81
VESSEL: CALIGUS
POSITION: 49 22.8 N 124 4.8 W
GRID POSITION: 82 . 33
BOTTOM DEPTH: 248 M

WIND DIRECTION: 45 DEG
WIND VELOCITY: 1 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 12.4 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 1131 HR
DEPTH OF TOW: 238 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 228 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 10.45

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	12.1	17.5	41.8
MERLUCCIUS PRODUCTUS	27.	81.8	118.4	282.1
THERAGRA CHALCOGRAMMA	2.	6.1	8.8	20.9
TOTAL	33.	100.0	144.7	344.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	39.	32.0	171.1	407.5
LEUROGLOSSUS STILBIUS	19.	15.6	83.3	198.6
MERLUCCIUS PRODUCTUS	50.	41.0	219.3	522.5
THERAGRA CHALCOGRAMMA	2.	1.6	8.8	20.9
GOBIIDAE(FAMILY)	1.	0.8	4.4	10.4
SCORPAENIDAE(FAMILY)	11.	9.0	48.2	114.9
TOTAL	122.	100.0	535.1	1274.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	100.0	4.4	10.4
TOTAL	1.	100.0	4.4	10.4

TABLE:	170	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	10	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	217 M3
POSITION:	49 21.4 N 123 58.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	258 M	TIME OF TOW:	1215 HR	ALIQUOT:	
		DEPTH OF TOW:	248 M	S.H.F.:	11.43

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	7.	26.9	32.3	80.0
MERLUCCIUS PRODUCTUS	19.	73.1	87.6	217.2
TOTAL	26.	100.0	119.8	297.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	15.	12.7	69.1	171.5
LEUROGLOSSUS STILBIUS	35.	29.7	161.3	400.1
MERLUCCIUS PRODUCTUS	57.	48.3	262.7	651.5
SCORPAENIDAE(FAMILY)	11.	9.3	50.7	125.7
TOTAL	118.	100.0	543.8	1348.7

TABLE:	171	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	11	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.6 C	VOL. FILTERED:	381 M3
POSITION:	49 21.4 N 123 53.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	75 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	430 M	TIME OF TOW:	1303 HR	ALIQUOT:	
		DEPTH OF TOW:	420 M	S.H.F.:	

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	14.	45.2		
MERLUCCIUS PRODUCTUS	17.	54.8		
TOTAL	31.	100.0		

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	27.	23.7		
LEUROGLOSSUS STILBIUS	24.	21.1		
MERLUCCIUS PRODUCTUS	45.	39.5		
GOBIIDAE(FAMILY)	1.	0.9		
SCORPAENIDAE(FAMILY)	17.	14.9		
TOTAL	114.	100.0		

TABLE:	172	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	12	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	8/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.0 C	VOL. FILTERED:	294 M3
POSITION:	49 23.9 N 123 56.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 29	BT/XBT NUMBER:	4	PLANKTON CONC.:	
BOTTOM DEPTH:	347 M	TIME OF TOW:	1420 HR	ALIQUOT:	
		DEPTH OF TOW:	320 M	S.H.F.:	10.88

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	18.2	6.8	21.8
MERLUCCIUS PRODUCTUS	8.	72.7	27.2	87.0
THERAGRA CHALCOGRAMMA	1.	9.1	3.4	10.9
TOTAL	11.	100.0	37.4	119.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	38.	26.2	129.3	413.4
LEUROGLOSSUS STILBIUS	27.	18.6	91.8	293.8
MERLUCCIUS PRODUCTUS	67.	46.2	227.9	729.0
THERAGRA CHALCOGRAMMA	2.	1.4	6.8	21.8
SCORPAENIDAE(FAMILY)	11.	7.6	37.4	119.7
TOTAL	145.	100.0	493.2	1577.6

TABLE: 173
CRUISE: SG 81-11
SAMPLE NO.: 13
DATE: 8/ 6/81
VESSEL: CALIGUS
POSITION: 49 24.7 N 124 1.0 W
GRID POSITION: 81 . 30
BOTTOM DEPTH: 397 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 2 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 14.8 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 1510 HR
DEPTH OF TOW: 371 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 342 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 10.84

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	50.0	35.1	130.1
MERLUCCIUS PRODUCTUS	11.	45.8	32.2	119.2
PLEURONICHTHYS COENOSUS	1.	4.2	2.9	10.8
TOTAL	24.	100.0	70.2	260.2

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	26.	22.0	76.0	281.8
LEUROGLOSSUS STILBIUS	31.	26.3	90.6	336.0
MERLUCCIUS PRODUCTUS	52.	44.1	152.0	563.7
GOBIIDAE(FAMILY)	3.	2.5	8.8	32.5
SCORPAENIDAE(FAMILY)	6.	5.1	17.5	65.0
TOTAL	118.	100.0	345.0	1279.1

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	100.0	2.9	10.8
TOTAL	1.	100.0	2.9	10.8

TABLE:	174
CRUISE:	SG 81-11
SAMPLE NO.:	14
DATE:	8/ 6/81
VESSEL:	CALIGUS
POSITION:	49 25.6 N 124 5.6 W
GRID POSITION:	84 . 31
BOTTOM DEPTH:	358 M

WIND DIRECTION:	135 DEG
WIND VELOCITY:	3 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	0 M
SURFACE TEMP:	15.6 C
STD NUMBER:	
BT/XBT NUMBER:	
TIME OF TOW:	1550 HR
DEPTH OF TOW:	323 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	329 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	9.80

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	13.	46.4	39.5	127.4
MERLUCCIUS PRODUCTUS	13.	46.4	39.5	127.4
THERAGRA CHALCOGRAMMA	1.	3.6	3.0	9.8
PLEURONICHTHYS COENOSUS	1.	3.6	3.0	9.8
TOTAL	28.	100.0	85.1	274.4

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	49.	32.7	148.9	480.2
LEUROGLOSSUS STILBIUS	26.	17.3	79.0	254.8
MERLUCCIUS PRODUCTUS	53.	35.3	161.1	519.4
THERAGRA CHALCOGRAMMA	1.	0.7	3.0	9.8
SCORPAENIDAE(FAMILY)	21.	14.0	63.8	205.8
TOTAL	150.	100.0	455.9	1470.0

JUVENILES

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	50.0	3.0	9.8
PARALIPARIS DEANI	1.	50.0	3.0	9.8
TOTAL	2.	100.0	6.1	19.6

TABLE:	175
CRUISE:	SG 81-11
SAMPLE NO.:	15
DATE:	8/ 6/81
VESSEL:	CALIGUS
POSITION:	49 28.0 N 124 3.1 W
GRID POSITION:	84 . 28
BOTTOM DEPTH:	330 M

WIND DIRECTION:	135 DEG
WIND VELOCITY:	5 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	1 M
SURFACE TEMP:	14.4 C
STD NUMBER:	
BT/XBT NUMBER:	5
TIME OF TOW:	1644 HR
DEPTH OF TOW:	320 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	278 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	11.52

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	14.3	3.6	11.5
MERLUCCIUS PRODUCTUS	6.	85.7	21.6	69.1
TOTAL	7.	100.0	25.2	80.6

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	1.7	3.6	11.5
THALEICHTHYS PACIFICUS	10.	16.9	36.0	115.2
LEUROGLOSSUS STILBIUS	11.	18.6	39.6	126.7
MERLUCCIUS PRODUCTUS	24.	40.7	86.3	276.5
GOBIIDAE(FAMILY)	2.	3.4	7.2	23.0
SCORPAENIDAE(FAMILY)	11.	18.6	39.6	126.7
TOTAL	59.	100.0	212.2	679.7

TABLE:	176				
CRUISE:	SG 81-11	WIND DIRECTION:	135 DEG		
SAMPLE NO.:	16	WIND VELOCITY:	8 MPS	TOW SPEED:	1 MPS
DATE:	9/ 6/81	WAVE HEIGHT:		TYPE OF TOW:	OBLIQUE
VESSEL:	CALIGUS	SWELL HEIGHT:	1 M	GEAR TYPE:	BONGO .25 M2
POSITION:	49 27.2 N 123 58.4 W	SURFACE TEMP:	13.2 C	MESH SIZE:	.351 MM
GRID POSITION:	81 . 27	STD NUMBER:		VOL. FILTERED:	172 M3
BOTTOM DEPTH:	193 M	BT/XBT NUMBER:		DISP. VOLUME:	
		TIME OF TOW:	0617 HR	PLANKTON CONC.:	
		DEPTH OF TOW:	193 M	ALIQUOT:	
				S.H.F.:	11.21

EGGS

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	25.0	17.4	33.6
MERLUCCIUS PRODUCTUS	9.	75.0	52.3	100.9
TOTAL	12.	100.0	69.8	134.5

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	40.0	46.5	89.7
LEUROGLOSSUS STILBIUS	11.	55.0	64.0	123.3
BATHYMASTERIDAE(FAMILY)	1.	5.0	5.8	11.2
TOTAL	20.	100.0	116.3	224.2

TABLE:	177	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	8 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	17	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	178 M3
POSITION:	49 27.2 N 123 52.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	78 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	205 M	TIME OF TOW:	0715 HR	ALIQUOT:	
		DEPTH OF TOW:	197 M	S.H.F.:	11.10

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	16.7	11.2	22.2
MERLUCCIUS PRODUCTUS	9.	75.0	50.6	99.9
THERAGRA CHALCOGRAMMA	1.	8.3	5.6	11.1
TOTAL	12.	100.0	67.4	133.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	0.5	5.6	11.1
THALEICHTHYS PACIFICUS	174.	88.8	977.5	1931.4
LEUROGLOSSUS STILBIUS	8.	4.1	44.9	88.8
MERLUCCIUS PRODUCTUS	6.	3.1	33.7	66.6
BATHYMASTERIDAE(FAMILY)	1.	0.5	5.6	11.1
SCORPAENIDAE(FAMILY)	5.	2.6	28.1	55.5
INOPSETTA ISCHYRA	1.	0.5	5.6	11.1
TOTAL	196.	100.0	1101.1	2175.6

TABLE: 178
CRUISE: SG 81-11
SAMPLE NO.: 18
DATE: 9/ 6/81
VESSEL: CALIGUS
POSITION: 49 24.4 N - 123 52.1 W
GRID POSITION: 76 . 27
BOTTOM DEPTH: 193 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 7 MPS
WAVE HEIGHT:
SWELL HEIGHT: 1 M
SURFACE TEMP: 12.7 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 0810 HR
DEPTH OF TOW: 179 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 199 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 9.00

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	5.	2.6	25.1	45.0
THALEICHTHYS PACIFICUS	139.	70.9	698.5	1251.0
LEUROGLOSSUS STILBIUS	16.	8.2	80.4	144.0
MERLUCCIUS PRODUCTUS	13.	6.6	65.3	117.0
THERAGRA CHALCOGRAMMA	1.	0.5	5.0	9.0
SCORPAENIDAE(FAMILY)	22.	11.2	110.6	198.0
TOTAL	196.	100.0	984.9	1764.0

TABLE:	179	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	7 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	19	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	154 M3
POSITION:	49 25.2 N 123 45.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	73 . 24	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	165 M	TIME OF TOW:	0912 HR	ALIQUOT:	
		DEPTH OF TOW:	162 M	S.H.F.:	10.53

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	33.3	6.5	10.5
MERLUCCIUS PRODUCTUS	2.	66.7	13.0	21.1
TOTAL	3.	100.0	19.5	31.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	97.	82.9	629.9	1021.4
LEUROGLOSSUS STILBIUS	7.	6.0	45.5	73.7
MERLUCCIUS PRODUCTUS	5.	4.3	32.5	52.6
GOBIIDAE(FAMILY)	1.	0.9	6.5	10.5
SCORPAENIDAE(FAMILY)	7.	6.0	45.5	73.7
TOTAL	117.	100.0	759.7	1232.0

TABLE:	180	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	5 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	20	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	171 M3
POSITION:	49 23.2 N 123 38.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 23	BT/XBT NUMBER:	6	PLANKTON CONC.:	
BOTTOM DEPTH:	173 M	TIME OF TOW:	1015 HR	ALIQUOT:	
		DEPTH OF TOW:	170 M	S.H.F.:	9.93

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	33.3	5.8	9.9
MERLUCCIUS PRODUCTUS	2.	66.7	11.7	19.9
TOTAL	3.	100.0	17.5	29.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	74.	70.5	432.7	734.8
LEUROGLOSSUS STILBIUS	12.	11.4	70.2	119.2
MERLUCCIUS PRODUCTUS	7.	6.7	40.9	69.5
THERAGRA CHALCOGRAMMA	1.	1.0	5.8	9.9
GOBIIDAE(FAMILY)	3.	2.9	17.5	29.8
SCORPAENIDAE(FAMILY)	8.	7.6	46.8	79.4
TOTAL	105.	100.0	614.0	1042.7

TABLE:	181	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	8 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	21	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.0 C	VOL. FILTERED:	175 M3
POSITION:	49 21.3 N 123 42.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	69 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	195 M	TIME OF TOW:	1123 HR	ALIQUOT:	
		DEPTH OF TOW:	187 M	S.H.F.:	10.68

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	68.	61.8	388.6	726.2
LEUROGLOSSUS STILBIUS	18.	16.4	102.9	192.2
MERLUCCIUS PRODUCTUS	9.	8.2	51.4	96.1
GOBIIDAE(FAMILY)	1.	0.9	5.7	10.7
SCORPAENIDAE(FAMILY)	13.	11.8	74.3	138.8
CYCLOPTERIDAE(FAMILY)	1.	0.9	5.7	10.7
TOTAL	110.	100.0	628.6	1174.8

TABLE:	182	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	8 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	22	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.4 C	VOL. FILTERED:	219 M3
POSITION:	49 22.2 N 123 47.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	72 . 27	BT/XBT NUMBER:	7	PLANKTON CONC.:	
BOTTOM DEPTH:	213 M	TIME OF TOW:	1218 HR	ALIQUOT:	
		DEPTH OF TOW:	198 M	S.H.F.:	9.06

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	9.1	4.6	9.1
MERLUCCIUS PRODUCTUS	10.	90.9	45.7	90.6
TOTAL	11.	100.0	50.2	99.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	38.	44.7	173.5	344.3
LEUROGLOSSUS STILBIUS	9.	1C.6	41.1	81.5
MERLUCCIUS PRODUCTUS	14.	16.5	63.9	126.8
THERAGRA CHALCOGRAMMA	1.	1.2	4.6	9.1
SCORPAENIDAE(FAMILY)	23.	27.1	105.0	208.4
TOTAL	85.	100.0	388.1	770.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCODAPUS MANDIBULARIS	1.	100.0	4.6	9.1
TOTAL	1.	100.0	4.6	9.1

TABLE:	183	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	8 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	23	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.6 C	VOL. FILTERED:	321 M3
POSITION:	49 19.7 N 123 49.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	72 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	370 M	TIME OF TOW:	1310 HR	ALIQUOT:	
		DEPTH OF TOW:	350 M	S.H.F.:	10.90

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	12.	26.1	37.4	130.8
MERLUCCIUS PRODUCTUS	32.	69.6	99.7	348.8
THERAGRA CHALCOGRAMMA	2.	4.3	6.2	21.8
TOTAL	46.	100.0	143.3	501.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	4.	4.3	12.5	43.6
LEUROGLOSSUS STILBIUS	26.	28.0	81.0	283.4
MYCTOPHIDAE(FAMILY)	1.	1.1	3.1	10.9
MERLUCCIUS PRODUCTUS	50.	53.8	155.8	545.0
THERAGRA CHALCOGRAMMA	2.	2.2	6.2	21.8
SCORPAENIDAE(FAMILY)	9.	9.7	28.0	98.1
LYOPSETTA EXILIS	1.	1.1	3.1	10.9
TOTAL	93.	100.0	289.7	1013.7

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	3.1	10.9
LYCODAPUS MANDIBULARIS	1.	50.0	3.1	10.9
TOTAL	2.	100.0	6.2	21.8

TABLE:	184	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	5 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	24	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	296 M3
POSITION:	49 18.8 N 123 45.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	69 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	330 M	TIME OF TOW:	1406 HR	ALIQUOT:	
		DEPTH OF TOW:	318 M	S.H.F.:	10.75

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	13.4	37.2	118.3
MERLUCCIUS PRODUCTUS	70.	85.4	236.5	752.5
THERAGRA CHALCOGRAMMA	1.	1.2	3.4	10.8
TOTAL	82.	100.0	277.0	881.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	9.4	27.0	86.0
LEUROGLOSSUS STILBIUS	14.	16.5	47.3	150.5
MERLUCCIUS PRODUCTUS	50.	58.8	168.9	537.5
SCORPAENIDAE(FAMILY)	13.	15.3	43.9	139.8
TOTAL	85.	100.0	287.2	913.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PARALIPARIS DEANI	1.	100.0	3.4	10.8
TOTAL	1.	100.0	3.4	10.8

TABLE: 185
CRUISE: SG 81-11
SAMPLE NO.: 25
DATE: 9/ 6/81
VESSEL: CALIGUS
POSITION: 49 15.8 N 123 46.3 W
GRID POSITION: 68 . 32
BOTTOM DEPTH: 400 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 3 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 11.3 C
STD NUMBER:
BT/XBT NUMBER: 8
TIME OF TOW: 1505 HR
DEPTH OF TOW: 392 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 332 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 11 81

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	11.	20.4	33.1	129.9
MERLUCCIUS PRODUCTUS	42.	77.8	126.5	496.0
THERAGRA CHALCOGRAMMA	1.	1.9	3.0	11.8
TOTAL	54.	100.0	162.7	637.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	15.	16.7	45.2	177.2
LEUROGLOSSUS STILBIUS	33.	36.7	99.4	389.7
MERLUCCIUS PRODUCTUS	38.	42.2	114.5	448.8
SCORPAENIDAE(FAMILY)	4.	4.4	12.0	47.2
TOTAL	90.	100.0	271.1	1062.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	3.0	11.8
LYCODAPUS MANDIBULARIS	1.	50.0	3.0	11.8
TOTAL	2.	100.0	6.0	23.6

TABLE:	186	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	26	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	9/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.1 C	VOL. FILTERED:	220 M3
POSITION:	49 14.2 N 123 53.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	71 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	212 M	TIME OF TOW:	1620 HR	ALIQUOT:	
		DEPTH OF TOW:	196 M	S.H.F.:	8.91

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	8.3	4.5	8.9
LEUROGLOSSUS STILBIUS	3.	25.0	13.6	26.7
MERLUCCIUS PRODUCTUS	8.	66.7	36.4	71.3
TOTAL	12.	100.0	54.5	106.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	18.	28.1	81.8	160.4
LEUROGLOSSUS STILBIUS	13.	20.3	59.1	115.8
MERLUCCIUS PRODUCTUS	17.	26.6	77.3	151.5
SCORPAENIDAE(FAMILY)	15.	23.4	68.2	133.6
AGONIDAE(FAMILY)	1.	1.6	4.5	8.9
TOTAL	64.	100.0	290.9	570.2

TABLE:	187	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	27	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.2 C	VOL. FILTERED:	172 M3
POSITION:	49 13.3 N 123 48.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	68 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	194 M	TIME OF TOW:	0555 HR	ALIQUOT:	
		DEPTH OF TOW:	181 M	S.H.F.:	10.52

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	14.3	11.6	21.0
MERLUCCIUS PRODUCTUS	12.	85.7	69.8	126.2
TOTAL	14.	100.0	81.4	147.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	4.	6.3	23.3	42.1
LEUROGLOSSUS STILBIUS	7.	11.1	40.7	73.6
MERLUCCIUS PRODUCTUS	26.	41.3	151.2	273.5
GOBIIDAE(FAMILY)	1.	1.6	5.8	10.5
SCORPAENIDAE(FAMILY)	25.	39.7	145.3	263.0
TOTAL	63.	100.0	366.3	662.8

TABLE:	188	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	28	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.4 C	VOL. FILTERED:	334 M3
POSITION:	49 13.3 N 123 43.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	65 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	393 M	TIME OF TOW:	0633 HR	ALIQUOT:	
		DEPTH OF TOW:	383 M	S.H.F.:	11.46

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	9.	34.6	26.9	103.1
MERLUCCIUS PRODUCTUS	17.	65.4	50.9	194.8
TOTAL	26.	100.0	77.8	298.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	10.	11.9	29.9	114.6
LEUROGLOSSUS STILBIUS	18.	21.4	53.9	206.3
MERLUCCIUS PRODUCTUS	42.	50.0	125.7	481.3
SCORPAENIDAE(FAMILY)	14.	16.7	41.9	160.4
TOTAL	84.	100.0	251.5	962.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.0	11.5
TOTAL	1.	100.0	3.0	11.5

TABLE:	189	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	29	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.7 C	VOL. FILTERED:	305 M3
POSITION:	49 15.8 N 123 40.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	65 . 30	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	372 M	TIME OF TOW:	0718 HR	ALIQUOT:	
		DEPTH OF TOW:	362 M	S.H.F.:	11.86

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	10.5	6.6	23.7
LEUROGLOSSUS STILBIUS	6.	31.6	19.7	71.2
MERLUCCIUS PRODUCTUS	11.	57.9	36.1	130.5
TOTAL	19.	100.0	62.3	225.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	5.	6.0	16.4	59.3
LEUROGLOSSUS STILBIUS	26.	31.3	85.2	308.4
MERLUCCIUS PRODUCTUS	41.	49.4	134.4	486.3
SCORPAENIDAE(FAMILY)	11.	13.3	36.1	130.5
TOTAL	83.	100.0	272.1	984.4

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.3	11.9
TOTAL	1.	100.0	3.3	11.9

TABLE:	190	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	30	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.6 C	VOL. FILTERED:	249 M3
POSITION:	49 16.3 N 123 36.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	63 . 28	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	253 M	TIME OF TOW:	0830 HR	ALIQUOT:	
		DEPTH OF TOW:	251 M	S.H.F.:	10.07

EGGS	TOTAL NUMBER	TAXA FCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	3.	42.9	12.0	30.2
LEUROGLOSSUS STILBIUS	1.	14.3	4.0	10.1
MERLUCCIUS PRODUCTUS	3.	42.9	12.0	30.2
TOTAL	7.	100.0	28.1	70.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	15.	18.8	60.2	151.1
LEUROGLOSSUS STILBIUS	11.	13.8	44.2	110.8
MERLUCCIUS PRODUCTUS	38.	47.5	152.6	382.7
SCORPAENIDAE(FAMILY)	16.	20.0	64.3	161.1
TOTAL	80.	100.0	321.3	805.6

TABLE:	191	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	31	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.0 C	VOL. FILTERED:	179 M3
POSITION:	49 19.4 N 123 40.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	67 . 27	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	0920 HR	ALIQUOT:	
		DEPTH OF TOW:	178 M	S.H.F.:	9.95

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	20.0	5.6	9.9
MERLUCCIUS PRODUCTUS	2.	40.0	11.2	19.9
PLEURONICHTHYS COENOSUS	2.	40.0	11.2	19.9
TOTAL	5.	100.0	27.9	49.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	30.	35.3	167.6	298.5
LEUROGLOSSUS STILBIUS	9.	10.6	50.3	89.5
MERLUCCIUS PRODUCTUS	20.	23.5	111.7	199.0
SCORPAENIDAE(FAMILY)	24.	28.2	134.1	238.8
PLEURONICHTHYS COENOSUS	1.	1.2	5.6	9.9
REINHARDTIUS HIPPOGLOSSOIDES	1.	1.2	5.6	9.9
TOTAL	85.	100.0	474.9	845.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	5.6	9.9
TOTAL	1.	100.0	5.6	9.9

TABLE:	192	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	32	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.7 C	VOL. FILTERED:	165 M3
POSITION:	49 19.4 N 123 35.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	64 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	170 M	TIME OF TOW:	1017 HR	ALIQUOT:	
		DEPTH OF TOW:	164 M	S.H.F.:	9.93

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	3.	100.0	18.2	29.8
TOTAL	3.	100.0	18.2	29.8

LARVAF	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	90.	68.7	545.5	893.7
LEUROGLOSSUS STILBIUS	19.	14.5	115.2	188.7
MERLUCCIUS PRODUCTUS	13.	9.9	78.8	129.1
SCORPAENIDAE(FAMILY)	9.	6.9	54.5	89.4
TOTAL	131.	100.0	793.9	1300.8

TABLE:	193	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	33	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.1 C	VOL. FILTERED:	197 M3
POSITION:	49 17.7 N 123 31.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	61 . 25	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	193 M	TIME OF TOW:	1107 HR	ALIQUOT:	
		DEPTH OF TOW:	183 M	S.H.F.:	9.28

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	20.0	5.1	9.3
MERLUCCIUS PRODUCTUS	4.	80.0	20.3	37.1
TOTAL	5.	100.0	25.4	46.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	35.	40.2	177.7	324.8
LEUROGLOSSUS STILBIUS	27.	31.0	137.1	250.6
MERLUCCIUS PRODUCTUS	21.	24.1	106.6	194.9
SCORPAENIDAE(FAMILY)	4.	4.6	20.3	37.1
TOTAL	87.	100.0	441.6	807.4

TABLE:	194	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	34	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.3 C	VOL. FILTERED:	178 M3
POSITION:	49 20.7 N 123 30.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 22	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	190 M	TIME OF TOW:	1149 HR	ALIQUOT:	
		DEPTH OF TOW:	186 M	S.H.F.:	10.45

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	66.7	11.2	20.9
MERLUCCIUS PRODUCTUS	1.	33.3	5.6	10.4
TOTAL	3.	100.0	16.9	31.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	206.	83.7	1157.3	2152.7
LEUROGLOSSUS STILBIUS	20.	8.1	112.4	209.0
MERLUCCIUS PRODUCTUS	13.	5.3	73.0	135.8
PHOLIDAE(FAMILY)	1.	0.4	5.6	10.4
GOBIIDAE(FAMILY)	1.	0.4	5.6	10.4
SCORPAENIDAE(FAMILY)	5.	2.0	28.1	52.3
TOTAL	246.	100.0	1382.0	2570.7

TABLE:	195	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	35	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.2 C	VOL. FILTERED:	138 M3
POSITION:	49 18.2 N 123 27.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	59 . 23	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	143 M	TIME OF TOW:	1237 HR	ALIQUOT:	
		DEPTH OF TOW:	140 M	S.H.F.:	10.15

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	61.	67.0	442.0	619.1
LEUROGLOSSUS STILBIUS	14.	15.4	101.4	142.1
MERLUCCIUS PRODUCTUS	10.	11.0	72.5	101.5
MICROGADUS PROXIMUS	1.	1.1	7.2	10.1
GOBIIDAE(FAMILY)	2.	2.2	14.5	20.3
SCORPAENIDAE(FAMILY)	3.	3.3	21.7	30.4
TOTAL	91.	100.0	659.4	923.6

TABLE:	196	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	36	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.4 C	VOL. FILTERED:	264 M3
POSITION:	49 14.6 N 123 27.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	57 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	293 M	TIME OF TOW:	1324 HR	ALIQUOT:	
		DEPTH OF TOW:	281 M	S.H.F.:	10.66

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	17.2	18.9	53.3
MERLUCCIUS PRODUCTUS	24.	82.8	90.9	255.8
TOTAL	29.	100.0	109.8	309.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	44.	43.6	166.7	469.0
LEUROGLOSSUS STILBIUS	20.	19.8	75.8	213.2
MERLUCCIUS PRODUCTUS	36.	35.6	136.4	383.8
SCORPAENIDAE(FAMILY)	1.	1.0	3.8	10.7
TOTAL	101.	100.0	382.6	1076.7

TABLE:	197	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	37	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.3 C	VOL. FILTERED:	297 M3
POSITION:	49 14.2 N 123 33.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	60 . 28	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	351 M	TIME OF TOW:	1418 HR	ALIQUOT:	
		DEPTH OF TOW:	341 M	S.H.F.:	11.49

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	4.3	3.4	11.5
LEUROGLOSSUS STILBIUS	10.	43.5	33.7	114.9
MERLUCCIUS PRODUCTUS	12.	52.2	40.4	137.9
TOTAL	23.	100.0	77.4	264.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	46.	44.2	154.9	528.5
LEUROGLOSSUS STILBIUS	18.	17.3	60.6	206.8
MERLUCCIUS PRODUCTUS	31.	29.8	104.4	356.2
SCORPAENIDAE(FAMILY)	9.	8.7	30.3	103.4
TOTAL	104.	100.0	350.2	1195.0

TABLE:	198	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	38	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.9 C	VOL. FILTERED:	300 M3
POSITION:	49 11.6 N 123 34.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	59 . 31	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	357 M	TIME OF TOW:	1509 HR	ALIQUOT:	
		DEPTH OF TOW:	347 M	S.H.F.:	11.56

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	7.7	3.3	11.6
LEUROGLOSSUS STILBIUS	9.	69.2	30.0	104.0
MERLUCCIUS PRODUCTUS	3.	23.1	10.0	34.7
TOTAL	13.	100.0	43.3	150.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	2.	2.8	6.7	23.1
LEUROGLOSSUS STILBIUS	24.	33.8	80.0	277.4
MERLUCCIUS PRODUCTUS	42.	59.2	140.0	485.5
SCORPAENIDAE(FAMILY)	3.	4.2	10.0	34.7
TOTAL	71.	100.0	236.7	820.8

TABLE:	199	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	39	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.9 C	VOL. FILTERED:	315 M3
POSITION:	49 13.3 N 123 37.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 31	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	377 M	TIME OF TOW:	1600 HR	ALIQUOT:	
		DEPTH OF TOW:	377 M	S.H.F.:	11.98

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	5.3	3.2	12.0
LEUROGLOSSUS STILBIUS	1.	5.3	3.2	12.0
MERLUCCIUS PRODUCTUS	17.	89.5	54.0	203.7
TOTAL	19.	100.0	60.3	227.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	3.	8.8	9.5	35.9
LEUROGLOSSUS STILBIUS	8.	23.5	25.4	95.8
MERLUCCIUS PRODUCTUS	19.	55.9	60.3	227.6
SCORPAENIDAE(FAMILY)	4.	11.8	12.7	47.9
TOTAL	34.	100.0	107.9	407.3

TABLE:	200	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	40	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	11/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.5 C	VOL. FILTERED:	144 M3
POSITION:	49 10.0 N 123 41.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	62 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	157 M	TIME OF TOW:	1700 HR	ALIQUOT:	
		DEPTH OF TOW:	145 M	S.H.F.:	10.09

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	9.1	6.9	10.1
MERLUCCIUS PRODUCTUS	10.	90.9	69.4	100.9
TOTAL	11.	100.0	76.4	111.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	26.	32.1	180.6	262.3
LEUROGLOSSUS STILBIUS	15.	18.5	104.2	151.4
MERLUCCIUS PRODUCTUS	27.	33.3	187.5	272.4
BROSMOPHYCIS MARGINATA	1.	1.2	6.9	10.1
SCORPAENIDAE(FAMILY)	12.	14.8	83.3	121.1
TOTAL	81.	100.0	562.5	817.3

TABLE:	201	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	41	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.5 C	VOL. FILTERED:	165 M3
POSITION:	49 7.7 N 123 36.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	58 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	162 M	TIME OF TOW:	0617 HR	ALIQUOT:	
		DEPTH OF TOW:	155 M	S.H.F.:	9.40

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	22.2	12.1	18.8
MERLUCCIUS PRODUCTUS	7.	77.8	42.4	65.8
TOTAL	9.	100.0	54.5	84.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	2.	2.9	12.1	18.8
LEUROGLOSSUS STILBIUS	20.	29.0	121.2	188.0
MERLUCCIUS PRODUCTUS	38.	55.1	230.3	357.2
THERAGRA CHALCOGRAMMA	2.	2.9	12.1	18.8
SCORPAENIDAE(FAMILY)	6.	8.7	36.4	56.4
CYCLOPTERIDAE(FAMILY)	1.	1.4	6.1	9.4
TOTAL	69.	100.0	418.2	648.6

TABLE:	202				
CRUISE:	SG 81-11	WIND DIRECTION:	180 DEG		
SAMPLE NO.:	42	WIND VELOCITY:	1 MPS	TOW SPEED:	1 MPS
DATE:	12/ 6/81	WAVE HEIGHT:		TYPE OF TOW:	OBLIQUE
VESSEL:	CALIGUS	SWELL HEIGHT:	0 M	GEAR TYPE:	BONGO .25 M2
POSITION:	49 3.6 N 123 34.9 W	SURFACE TEMP:	12.2 C	MESH SIZE:	.351 MM
GRID POSITION:	55 . 38	STD NUMBER:		VOL. FILTERED:	174 M3
BOTTOM DEPTH:	193 M	BT/XBT NUMBER:		DISP. VOLUME:	
		TIME OF TOW:	0716 HR	PLANKTON CONC.:	
		DEPTH OF TOW:	190 M	ALIQUOT:	
				S.H.F.:	10.91

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	34.	37.8	195.4	370.9
LEUROGLOSSUS STILBIUS	21.	23.3	120.7	229.1
MERLUCCIUS PRODUCTUS	28.	31.1	160.9	305.5
THERAGRA CHALCOGRAMMA	4.	4.4	23.0	43.6
SCORPAENIDAE(FAMILY)	3.	3.3	17.2	32.7
TOTAL	90.	100.0	517.2	981.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	5.7	10.9
TOTAL	1.	100.0	5.7	10.9

TABLE:	203	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	43	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	210 M3
POSITION:	49 1.9 N 123 31.1 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	52 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
		TIME OF TOW:	0804 HR	ALIQUOT:	
BOTTOM DEPTH:	228 M	DEPTH OF TOW:	216 M	S.H.F.:	10.28

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	50.0	19.0	41.1
MERLUCCIUS PRODUCTUS	3.	37.5	14.3	30.8
PLEURONICHTHYS COENOSUS	1.	12.5	4.8	10.3
TOTAL	8.	100.0	38.1	82.2

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	129.	60.0	614.3	1326.1
LEUROGLOSSUS STILBIUS	39.	18.1	185.7	400.9
MERLUCCIUS PRODUCTUS	39.	18.1	185.7	400.9
SCORPAENIDAE(FAMILY)	8.	3.7	38.1	82.2
TOTAL	215.	100.0	1023.8	2210.2

TABLE:	204	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	44	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	295 M3
POSITION:	49 4.9 N 123 29.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	319 M	TIME OF TOW:	0845 HR	ALIQUOT:	
		DEPTH OF TOW:	309 M	S.H.F.:	10.49

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	41.7	16.9	52.5
MERLUCCIUS PRODUCTUS	7.	58.3	23.7	73.4
TOTAL	12.	100.0	40.7	125.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	65.	53.3	220.3	681.8
LEUROGLOSSUS STILBIUS	16.	13.1	54.2	167.8
MERLUCCIUS PRODUCTUS	36.	29.5	122.0	377.6
GOBIIDAE(FAMILY)	1.	0.8	3.4	10.5
SCORPAENIDAE(FAMILY)	4.	3.3	13.6	42.0
TOTAL	122.	100.0	413.6	1279.8

TABLE:	205	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	45	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.3 C	VOL. FILTERED:	232 M3
POSITION:	49 6.3 N 123 24.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	51 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	250 M	TIME OF TOW:	0942 HR	ALIQUOT:	
		DEPTH OF TOW:	247 M	S.H.F.:	10.63

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	57.1	34.5	85.0
MERLUCCIUS PRODUCTUS	5.	35.7	21.6	53.2
THERAGRA CHALCOGRAMMA	1.	7.1	4.3	10.6
TOTAL	14.	100.0	60.3	148.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	45.	39.5	194.0	478.4
LEUROGLOSSUS STILBIUS	21.	18.4	90.5	223.2
MERLUCCIUS PRODUCTUS	41.	36.0	176.7	435.8
GOBIIDAE(FAMILY)	1.	0.9	4.3	10.6
SCORPAENIDAE(FAMILY)	6.	5.3	25.9	63.8
TOTAL	114.	100.0	491.4	1211.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	50.0	4.3	10.6
LYCODAPUS MANDIBULARIS	1.	50.0	4.3	10.6
TOTAL	2.	100.0	8.6	21.3

TABLE:	206	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	46	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.0 C	VOL. FILTERED:	281 M3
POSITION:	49 8.5 N 123 29.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	55 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	328 M	TIME OF TOW:	1133 HR	ALIQUOT:	
		DEPTH OF TOW:	319 M	S.H.F.:	11.34

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	4.	26.7	14.2	45.4
MERLUCCIUS PRODUCTUS	11.	73.3	39.1	124.7
TOTAL	15.	100.0	53.4	170.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	23.	26.4	81.9	260.8
LEUROGLOSSUS STILBIUS	17.	19.5	60.5	192.8
MERLUCCIUS PRODUCTUS	36.	41.4	128.1	408.2
THERAGRA CHALCOGRAMMA	1.	1.1	3.6	11.3
SCORPAENIDAE(FAMILY)	8.	9.2	28.5	90.7
CYCLOPTERIDAE(FAMILY)	1.	1.1	3.6	11.3
INOPSETTA ISCHYRA	1.	1.1	3.6	11.3
TOTAL	87.	100.0	309.6	986.6

TABLE:	207	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	47	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.0 C	VOL. FILTERED:	289 M3
POSITION:	49 11.6 N 123 28.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	329 M	TIME OF TOW:	1122 HR	ALIQUOT:	
		DEPTH OF TOW:	319 M	S.H.F.:	11.02

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	6.	30.0	20.8	66.1
MERLUCCIUS PRODUCTUS	13.	65.0	45.0	143.3
PLEURONICHTHYS COENOSUS	1.	5.0	3.5	11.0
TOTAL	20.	100.0	69.2	220.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	23.	27.7	79.6	253.5
LEUROGLOSSUS STILBIUS	22.	26.5	76.1	242.4
MERLUCCIUS PRODUCTUS	27.	32.5	93.4	297.5
THERAGRA CHALCOGRAMMA	1.	1.2	3.5	11.0
GOBIIDAE(FAMILY)	1.	1.2	3.5	11.0
SCORPAENIDAE(FAMILY)	9.	10.8	31.1	99.2
TOTAL	83.	100.0	287.2	914.7

TABLE:	208	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	48	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.6 C	VOL. FILTERED:	210 M3
POSITION:	49 9.9 N 123 24.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	231 M	TIME OF TOW:	1215 HR	ALIQUOT:	
		DEPTH OF TOW:	228 M	S.H.F.:	10.87

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	8.3	4.8	10.9
MERLUCCIUS PRODUCTUS	11.	91.7	52.4	119.6
TOTAL	12.	100.0	57.1	130.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	40.	41.7	190.5	434.8
LEUROGLOSSUS STILBIUS	27.	28.1	128.6	293.5
MERLUCCIUS PRODUCTUS	28.	29.2	133.3	304.4
GOBIIDAE(FAMILY)	1.	1.0	4.8	10.9
TOTAL	96.	100.0	457.1	1043.5

TABLE:	209	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	49	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.2 C	VOL. FILTERED:	270 M3
POSITION:	49 12.9 N 123 23.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	54 . 26	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	280 M	TIME OF TOW:	1256 HR	ALIQUOT:	
		DEPTH OF TOW:	277 M	S.H.F.:	10.25

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	5.	33.3	18.5	51.3
MERLUCCIUS PRODUCTUS	10.	66.7	37.0	102.5
TOTAL	15.	100.0	55.6	153.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	34.	40.5	125.9	348.5
LEUROGLOSSUS STILBIUS	16.	19.0	59.3	164.0
MERLUCCIUS PRODUCTUS	30.	35.7	111.1	307.5
GOBIIDAE(FAMILY)	1.	1.2	3.7	10.3
SCORPAENIDAE(FAMILY)	3.	3.6	11.1	30.8
TOTAL	84.	100.0	311.1	861.0

TABLE:	210
CRUISE:	SG 81-11
SAMPLE NO.:	50
DATE:	12/ 6/81
VESSEL:	CALIGUS
POSITION:	49 16.5 N 123 23.4 W
GRID POSITION:	56 . 23
BOTTOM DEPTH:	254 M

WIND DIRECTION:	90 DEG
WIND VELOCITY:	2 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	0 M
SURFACE TEMP:	16.6 C
STD NUMBER:	
BT/XBT NUMBER:	
TIME OF TOW:	1345 HR
DEPTH OF TOW:	240 M

TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	235 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	10.23

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	8.	44.4	34.0	81.8
MERLUCCIUS PRODUCTUS	10.	55.6	42.6	102.3
TOTAL	18.	100.0	76.6	184.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	53.	67.1	225.5	542.2
LEUROGLOSSUS STILBIUS	8.	10.1	34.0	81.8
MERLUCCIUS PRODUCTUS	18.	22.8	76.6	184.1
TOTAL	79.	100.0	336.2	808.2

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
STENOBRACHIUS LEUCOPSARUS	1.	100.0	4.3	10.2
TOTAL	1.	100.0	4.3	10.2

TABLE:	211	WIND DIRECTION:	90 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	51	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	16.3 C	VOL. FILTERED:	212 M3
POSITION:	49 19.0 N 123 20.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	56 . 20	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	211 M	TIME OF TOW:	1434 HR	ALIQUOT:	
		DEPTH OF TOW:	203 M	S.H.F.:	9.56

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	10.	83.3	47.2	95.6
LEUROGLOSSUS STILBIUS	1.	8.3	4.7	9.6
MERLUCCIUS PRODUCTUS	1.	8.3	4.7	9.6
TOTAL	12.	100.0	56.6	114.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	5.	13.2	23.6	47.8
LEUROGLOSSUS STILBIUS	18.	47.4	84.9	172.1
MERLUCCIUS PRODUCTUS	13.	34.2	61.3	124.3
SCORPAENIDAE(FAMILY)	1.	2.6	4.7	9.6
INOPSETTA ISCHYRA	1.	2.6	4.7	9.6
TOTAL	38.	100.0	179.2	363.3

TABLE:	212	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	52	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.9 C	VOL. FILTERED:	187 M3
POSITION:	49 14.9 N 123 19.6 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	53 . 23	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	191 M	TIME OF TOW:	1525 HR	ALIQUOT:	
		DEPTH OF TOW:	175 M	S.H.F.:	9.36

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	66.7	10.7	18.7
MERLUCCIUS PRODUCTUS	1.	33.3	5.3	9.4
TOTAL	3.	100.0	16.0	28.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	16.	31.4	85.6	149.8
LEUROGLOSSUS STILBIUS	26.	51.0	139.0	243.4
MERLUCCIUS PRODUCTUS	6.	11.8	32.1	56.2
GOBIIDAE(FAMILY)	1.	2.0	5.3	9.4
SCORPAENIDAE(FAMILY)	2.	3.9	10.7	18.7
TOTAL	51.	100.0	272.7	477.4

TABLE:	213
CRUISE:	SG 81-11
SAMPLE NO.:	53
DATE:	12/ 6/81
VESSEL:	CALIGUS
POSITION:	49 11.3 N 123 19.6 W
GRID POSITION:	51 . 26
BOTTOM DEPTH:	171 M
WIND DIRECTION:	180 DEG
WIND VELOCITY:	3 MPS
WAVE HEIGHT:	
SWELL HEIGHT:	0 M
SURFACE TEMP:	15.7 C
STD NUMBER:	
BT/XBT NUMBER:	
TIME OF TOW:	1612 HR
DEPTH OF TOW:	160 M
TOW SPEED:	1 MPS
TYPE OF TOW:	OBLIQUE
GEAR TYPE:	BONGO .25 M2
MESH SIZE:	.351 MM
VOL. FILTERED:	163 M3
DISP. VOLUME:	
PLANKTON CONC.:	
ALIQUOT:	
S.H.F.:	9.82

LARVAE

	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	24.	49.0	147.2	235.7
LEUROGLOSSUS STILBIUS	14.	28.6	85.9	137.5
MERLUCCIUS PRODUCTUS	11.	22.4	67.5	108.0
TOTAL	49.	100.0	300.6	481.2

TABLE:	214	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	54	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	12/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	15.5 C	VOL. FILTERED:	133 M3
POSITION:	49 7.7 N 123 19.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	49 . 29	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	128 M	TIME OF TOW:	1700 HR	ALIQUOT:	
		DEPTH OF TOW:	120 M	S.H.F.:	9.02

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	11.	25.6	82.7	99.2
LEUROGLOSSUS STILBIUS	18.	41.9	135.3	162.4
MERLUCCIUS PRODUCTUS	12.	27.9	90.2	108.2
SCORPAENIDAE(FAMILY)	2.	4.7	15.0	18.0
TOTAL	43.	100.0	323.3	387.9

TABLE:	215	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	55	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.8 C	VOL. FILTERED:	226 M3
POSITION:	49 3.8 N 123 21.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	48 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	229 M	TIME OF TOW:	0601 HR	ALIQUOT:	
		DEPTH OF TOW:	216 M	S.H.F.:	9.55

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	100.0	4.4	9.6
TOTAL	1.	100.0	4.4	9.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	64.	64.6	283.2	611.2
LEUROGLOSSUS STILBIUS	18.	18.2	79.6	171.9
MERLUCCIUS PRODUCTUS	11.	11.1	48.7	105.1
THERAGRA CHALCOGRAMMA	1.	1.0	4.4	9.6
GOBIIDAE(FAMILY)	1.	1.0	4.4	9.6
SCORPAENIDAE(FAMILY)	4.	4.0	17.7	38.2
TOTAL	99.	100.0	438.1	945.5

TABLE:	216	WIND DIRECTION:	315 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	56	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.0 C	VOL. FILTERED:	292 M3
POSITION:	49 3.3 N 123 26.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	50 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	305 M	TIME OF TOW:	0645 HR	ALIQUOT:	
		DEPTH OF TOW:	285 M	S.H.F.:	9.77

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	3.	50.0	10.3	29.3
MERLUCCIUS PRODUCTUS	3.	50.0	10.3	29.3
TOTAL	6.	100.0	20.5	58.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	55.	51.9	188.4	537.4
LEUROGLOSSUS STILBIUS	16.	15.1	54.8	156.3
MERLUCCIUS PRODUCTUS	26.	24.5	89.0	254.0
THERAGRA CHALCOGRAMMA	2.	1.9	6.8	19.5
GOBIIDAE(FAMILY)	3.	2.8	10.3	29.3
SCORPAENIDAE(FAMILY)	4.	3.8	13.7	39.1
TOTAL	106.	100.0	363.0	1035.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	100.0	3.4	9.8
TOTAL	1.	100.0	3.4	9.8

TABLE:	217	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	57	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:		MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	212 M3
POSITION:	49 0.2 N 123 27.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	49 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	219 M	TIME OF TOW:	0730 HR	ALIQUOT:	
		DEPTH OF TOW:	208 M	S.H.F.:	9.82

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	66.7	9.4	19.6
MERLUCCIUS PRODUCTUS	1.	33.3	4.7	9.8
TOTAL	3.	100.0	14.2	29.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	85.	54.5	400.9	834.7
LEUROGLOSSUS STILBIUS	35.	22.4	165.1	343.7
MERLUCCIUS PRODUCTUS	28.	17.9	132.1	275.0
SCORPAENIDAE(FAMILY)	8.	5.1	37.7	78.6
TOTAL	156.	100.0	735.8	1531.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
NECTOLIPARIS PELAGICUS	1.	100.0	4.7	9.8
TOTAL	1.	100.0	4.7	9.8

TABLE:	218	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	58	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.5 C	VOL. FILTERED:	181 M3
POSITION:	48 57.7 N 123 24.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	46 . 39	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	184 M	TIME OF TOW:	0811 HR	ALIQUOT:	
		DEPTH OF TOW:	169 M	S.H.F.:	9.32

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	50.0	11.0	18.6
MERLUCCIUS PRODUCTUS	2.	50.0	11.0	18.6
TOTAL	4.	100.0	22.1	37.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	17.	27.9	93.9	158.4
LEUROGLOSSUS STILBIUS	21.	34.4	116.0	195.7
MERLUCCIUS PRODUCTUS	18.	29.5	99.4	167.8
SCORPAENIDAE(FAMILY)	3.	4.9	16.6	28.0
INOPSETTA ISOLEPIS	1.	1.6	5.5	9.3
PLATICHTHYS STELLATUS	1.	1.6	5.5	9.3
TOTAL	61.	100.0	337.0	568.5

TABLE: 219
CRUISE: SG 81-11
SAMPLE NO.: 59
DATE: 13/ 6/81
VESSEL: CALIGUS
POSITION: 49 0.2 N 123 21.8 W
GRID POSITION: 46 . 36
BOTTOM DEPTH: 236 M

WIND DIRECTION: 270 DEG
WIND VELOCITY: 4 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 14.4 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 0858 HR
DEPTH OF TOW: 228 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 256 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 8.90

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	22.	33.8	85.9	195.8
LEUROGLOSSUS STILBIUS	20.	30.8	78.1	178.0
MERLUCCIUS PRODUCTUS	19.	29.2	74.2	169.1
SCORPAENIDAE(FAMILY)	3.	4.6	11.7	26.7
INOPSETTA ISCHYRA	1.	1.5	3.9	8.9
TOTAL	65.	100.0	253.9	578.5

TABLE:	220	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	60	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	191 M3
POSITION:	48 57.7 N 123 18.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	43 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	0944 HR	ALIQUOT:	
		DEPTH OF TOW:	183 M	S.H.F.:	9.57

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	1.	100.0	5.2	9.6
TOTAL	1.	100.0	5.2	9.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	36.	57.1	188.5	344.5
LEUROGLOSSUS STILBIUS	13.	20.6	68.1	124.4
MERLUCCIUS PRODUCTUS	13.	20.6	68.1	124.4
SCORPAENIDAE(FAMILY)	1.	1.6	5.2	9.6
TOTAL	63.	100.0	329.8	602.9

TABLE:	221	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	61	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.9 C	VOL. FILTERED:	169 M3
POSITION:	48 55.6 N 123 21.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	43 . 39	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	173 M	TIME OF TOW:	1018 HR	ALIQUOT:	
		DEPTH OF TOW:	164 M	S.H.F.:	9.71

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	22.	44.9	130.2	213.6
LEUROGLOSSUS STILBIUS	14.	28.6	82.8	135.9
MERLUCCIUS PRODUCTUS	9.	18.4	53.3	87.4
SCORPAENIDAE(FAMILY)	4.	8.2	23.7	38.8
TOTAL	49.	100.0	289.9	475.8

TABLE:	222	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	62	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.2 C	VOL. FILTERED:	194 M3
POSITION:	48 54.4 N 123 16.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	40 . 39	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	188 M	TIME OF TOW:	1055 HR	ALIQUOT:	
		DEPTH OF TOW:	184 M	S.H.F.:	9.51

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	100.0	5.2	9.5
TOTAL	1.	100.0	5.2	9.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	50.	62.5	257.7	475.5
LEUROGLOSSUS STILBIUS	6.	7.5	30.9	57.1
MERLUCCIUS PRODUCTUS	20.	25.0	103.1	190.2
THERAGRA CHALCOGRAMMA	1.	1.3	5.2	9.5
GOBIIDAE(FAMILY)	1.	1.3	5.2	9.5
SCORPAENIDAE(FAMILY)	1.	1.3	5.2	9.5
INOPSETTA ISCHYRA	1.	1.3	5.2	9.5
TOTAL	80.	100.0	412.4	760.8

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
DIAPHUS THETA	1.	100.0	5.2	9.5
TOTAL	1.	100.0	5.2	9.5

TABLE: 223
CRUISE: SG 81-11
SAMPLE NO.: 63
DATE: 13/ 6/81
VESSEL: CALIGUS
POSITION: 48 56.0 N 123 15.1 W
GRID POSITION: 40 . 37
BOTTOM DEPTH: 146 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 2 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 14.9 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 1131 HR
DEPTH OF TOW: 134 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 156 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 8.58

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	8.	20.0	51.3	68.6
LEUROGLOSSUS STILBIUS	22.	55.0	141.0	188.8
MERLUCCIUS PRODUCTUS	8.	20.0	51.3	68.6
SCORPAENIDAE(FAMILY)	2.	5.0	12.8	17.2
TOTAL	40.	100.0	256.4	343.2

TABLE:	224	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	64	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.0 C	VOL. FILTERED:	137 M3
POSITION:	48 53.8 N 123 10.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	36 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	128 M	TIME OF TOW:	1212 HR	ALIQUOT:	
		DEPTH OF TOW:	125 M	S.H.F.:	9.14

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	38.	49.4	277.4	347.3
LEUROGLOSSUS STILBIUS	14.	18.2	102.2	128.0
MERLUCCIUS PRODUCTUS	23.	29.9	167.9	210.2
SCORPAENIDAE(FAMILY)	2.	2.6	14.6	18.3
TOTAL	77.	100.0	562.0	703.8

TABLE: 225
CRUISE: SG 81-11
SAMPLE NO.: 65
DATE: 13/ 6/81
VESSEL: CALIGUS
POSITION: 48 52.3 N 123 13.4 W
GRID POSITION: 37 . 39
BOTTOM DEPTH: 205 M

WIND DIRECTION: 135 DEG
WIND VELOCITY: 1 MPS
WAVE HEIGHT:
SWELL HEIGHT: 0 M
SURFACE TEMP: 13.6 C
STD NUMBER:
BT/XBT NUMBER:
TIME OF TOW: 1246 HR
DEPTH OF TOW: 196 M

TOW SPEED: 1 MPS
TYPE OF TOW: OBLIQUE
GEAR TYPE: BONGO .25 M2
MESH SIZE: .351 MM
VOL. FILTERED: 213 M3
DISP. VOLUME:
PLANKTON CONC.:
ALIQUOT:
S.H.F.: 9.20

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	69.	53.1	323.9	634.8
LEUROGLOSSUS STILBIUS	33.	25.4	154.9	303.6
MERLUCCIUS PRODUCTUS	22.	16.9	103.3	202.4
BATHYMASTERIDAE(FAMILY)	2.	1.5	9.4	18.4
GOBIIDAE(FAMILY)	1.	0.8	4.7	9.2
SCORPAENIDAE(FAMILY)	3.	2.3	14.1	27.6
TOTAL	130.	100.0	610.3	1196.0

TABLE:	226				
CRUISE:	SG 81-11	WIND DIRECTION:	135 DEG		
SAMPLE NO.:	66	WIND VELOCITY:	1 MPS	TOW SPEED:	1 MPS
DATE:	13/ 6/81	WAVE HEIGHT:		TYPE OF TOW:	OBLIQUE
VESSEL:	CALIGUS	SWELL HEIGHT:	0 M	GEAR TYPE:	BONGO .25 M2
POSITION:	48 50.6 N 123 9.6 W	SURFACE TEMP:	13.4 C	MESH SIZE:	.351 MM
GRID POSITION:	34 . 39	STD NUMBER:		VOL. FILTERED:	201 M3
BOTTOM DEPTH:	190 M	BT/XBT NUMBER:		DISP. VOLUME:	
		TIME OF TOW:	1331 HR	PLANKTON CONC.:	
		DEPTH OF TOW:	178 M	ALIQUOT:	
				S.H.F.:	8.84

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	43.	61.4	213.9	380.1
LEUROGLOSSUS STILBIUS	22.	31.4	109.5	194.5
MERLUCCIUS PRODUCTUS	3.	4.3	14.9	26.5
BATHYMASTERIDAE(FAMILY)	1.	1.4	5.0	8.8
SCORPAENIDAE(FAMILY)	1.	1.4	5.0	8.8
TOTAL	70.	100.0	348.3	618.8

TABLE:	227	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	67	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	127 M3
POSITION:	48 49.1 N 123 7.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	32 . 40	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	124 M	TIME OF TOW:	1404 HR	ALIQUOT:	
		DEPTH OF TOW:	118 M	S.H.F.:	9.28

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	100.0	7.9	9.3
TOTAL	1.	100.0	7.9	9.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	78.	72.9	614.2	723.8
LEUROGLOSSUS STILBIUS	10.	9.3	78.7	92.8
MERLUCCIUS PRODUCTUS	15.	14.0	118.1	139.2
GOBIIDAE(FAMILY)	1.	0.9	7.9	9.3
SCORPAENIDAE(FAMILY)	3.	2.8	23.6	27.8
TOTAL	107.	100.0	842.5	993.0

TABLE:	228	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	68	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.5 C	VOL. FILTERED:	208 M3
POSITION:	48 49.7 N 123 5.0 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	31 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	195 M	TIME OF TOW:	1431 HR	ALIQUOT:	
		DEPTH OF TOW:	183 M	S.H.F.:	8.81

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	24.	35.8	115.4	211.4
LEUROGLOSSUS STILBIUS	26.	38.8	125.0	229.1
MERLUCCIUS PRODUCTUS	15.	22.4	72.1	132.2
SCORPAENIDAE(FAMILY)	1.	1.5	4.8	8.8
COTTIDAE(FAMILY)	1.	1.5	4.8	8.8
TOTAL	67.	100.0	322.1	590.3

TABLE:	229	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	69	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.1 C	VOL. FILTERED:	149 M3
POSITION:	48 51.8 N 123 2.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	31 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	170 M	TIME OF TOW:	1508 HR	ALIQUOT:	
		DEPTH OF TOW:	166 M	S.H.F.:	11.12

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	49.	66.2	328.9	544.9
LEUROGLOSSUS STILBIUS	10.	13.5	67.1	111.2
MERLUCCIUS PRODUCTUS	10.	13.5	67.1	111.2
THERAGRA CHALCOGRAMMA	1.	1.4	6.7	11.1
BATHYMASTERIDAE(FAMILY)	2.	2.7	13.4	22.2
SCORPAENIDAE(FAMILY)	2.	2.7	13.4	22.2
TOTAL	74.	100.0	496.6	822.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	6.7	11.1
TOTAL	1.	100.0	6.7	11.1

TABLE:	230	WIND DIRECTION:	180 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	70	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	175 M3
POSITION:	48 48.6 N 123 2.5 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	29 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	161 M	TIME OF TOW:	1547 HR	ALIQUOT:	
		DEPTH OF TOW:	139 M	S.H.F.:	7.93

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYOPSETTA EXILIS	1.	100.0	5.7	7.9
TOTAL	1.	100.0	5.7	7.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	1.	3.6	5.7	7.9
THALEICHTHYS PACIFICUS	11.	39.3	62.9	87.2
LEUROGLOSSUS STILBIUS	4.	14.3	22.9	31.7
MERLUCCIUS PRODUCTUS	8.	28.6	45.7	63.4
SCORPAENIDAE(FAMILY)	3.	10.7	17.1	23.8
CYCLOPTERIDAE(FAMILY)	1.	3.6	5.7	7.9
TOTAL	28.	100.0	160.0	222.0

TABLE:	231	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	71	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.7 C	VOL. FILTERED:	181 M3
POSITION:	48 49.3 N 122 59.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	28 . 37	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	211 M	TIME OF TOW:	1625 HR	ALIQUOT:	
		DEPTH OF TOW:	204 M	S.H.F.:	11.30

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	56.	62.9	309.4	632.8
LEUROGLOSSUS STILBIUS	7.	7.9	38.7	79.1
MERLUCCIUS PRODUCTUS	16.	18.0	88.4	180.8
SCORPAENIDAE(FAMILY)	8.	9.0	44.2	90.4
INOPSETTA ISCHYRA	1.	1.1	5.5	11.3
REINHARDTIUS HIPPOGLOSSOIDES	1.	1.1	5.5	11.3
TOTAL	89.	100.0	491.7	1005.7

TABLE:	232	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	72	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.3 C	VOL. FILTERED:	237 M3
POSITION:	48 47.4 N 122 58.2 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	26 . 38	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	281 M	TIME OF TOW:	1704 HR	ALIQUOT:	
		DEPTH OF TOW:	270 M	S.H.F.:	11.41

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MERLUCCIUS PRODUCTUS	1.	100.0	4.2	11.4
TOTAL	1.	100.0	4.2	11.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	3.	6.5	12.7	34.2
THALEICHTHYS PACIFICUS	14.	30.4	59.1	159.7
LEUROGLOSSUS STILBIUS	11.	23.9	46.4	125.5
MERLUCCIUS PRODUCTUS	14.	30.4	59.1	159.7
THERAGRA CHALCOGRAMMA	1.	2.2	4.2	11.4
SCORPAENIDAE(FAMILY)	2.	4.3	8.4	22.8
INOPSETTA ISCHYRA	1.	2.2	4.2	11.4
TOTAL	46.	100.0	194.1	524.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LIPARIS FLORAE	1.	100.0	4.2	11.4
TOTAL	1.	100.0	4.2	11.4

TABLE:	233	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	1 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	73	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.5 C	VOL. FILTERED:	199 M3
POSITION:	48 48.5 N 122 55.3 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	25 . 36	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	200 M	TIME OF TOW:	1753 HR	ALIQUOT:	
		DEPTH OF TOW:	192 M	S.H.F.:	9.66

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	4.	7.1	20.1	38.6
THALEICHTHYS PACIFICUS	27.	48.2	135.7	260.8
LEUROGLOSSUS STILBIUS	1.	1.8	5.0	9.7
MERLUCCIUS PRODUCTUS	6.	10.7	30.2	58.0
SCORPAENIDAE(FAMILY)	1.	1.8	5.0	9.7
COTTIDAE(FAMILY)	17.	30.4	85.4	164.2
TOTAL	56.	100.0	281.4	541.0

TABLE:	234	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	4 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	74	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.3 C	VOL. FILTERED:	159 M3
POSITION:	48 50.7 N 122 54.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	26 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	170 M	TIME OF TOW:	1825 HR	ALIQUOT:	
		DEPTH OF TOW:	163 M	S.H.F.:	10.24

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	2.	6.3	12.6	20.5
THALEICHTHYS PACIFICUS	20.	62.5	125.8	204.8
LEUROGLOSSUS STILBIUS	5.	15.6	31.4	51.2
MERLUCCIUS PRODUCTUS	3.	9.4	18.9	30.7
THERAGRA CHALCOGRAMMA	1.	3.1	6.3	10.2
REINHARDTIUS HIPPOGLOSSOIDES	1.	3.1	6.3	10.2
TOTAL	32.	100.0	201.3	327.7

TABLE:	235	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	75	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	11.5 C	VOL. FILTERED:	202 M3
POSITION:	48 51.7 N 122 58.4 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	28 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	212 M	TIME OF TOW:	1857 HR	ALIQUOT:	
		DEPTH OF TOW:	199 M	S.H.F.:	9.86

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	30.	51.7	148.5	295.8
LEUROGLOSSUS STILBIUS	3.	5.2	14.9	29.6
MERLUCCIUS PRODUCTUS	17.	29.3	84.2	167.6
SCORPAENIDAE(FAMILY)	6.	10.3	29.7	59.2
COTTIDAE(FAMILY)	1.	1.7	5.0	9.9
CYCLOPTERIDAE(FAMILY)	1.	1.7	5.0	9.9
TOTAL	58.	100.0	287.1	571.9

TABLE:	236	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	76	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.0 C	VOL. FILTERED:	114 M3
POSITION:	48 54.0 N 122 56.9 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	29 . 32	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	121 M	TIME OF TOW:	1930 HR	ALIQUOT:	
		DEPTH OF TOW:	113 M	S.H.F.:	9.92

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	48.	72.7	421.1	476.2
LEUROGLOSSUS STILBIUS	7.	10.6	61.4	69.4
MERLUCCIUS PRODUCTUS	7.	10.6	61.4	69.4
SCORPAENIDAE(FAMILY)	3.	4.5	26.3	29.8
CYCLOPTERIDAE(FAMILY)	1.	1.5	8.8	9.9
TOTAL	66.	100.0	578.9	654.7

TABLE:	237	WIND DIRECTION:	135 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	77	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	13/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	14.4 C	VOL. FILTERED:	124 M3
POSITION:	48 55.4 N 123 2.8 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	33 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	125 M	TIME OF TOW:	2012 HR	ALIQUOT:	
		DEPTH OF TOW:	121 M	S.H.F.:	9.76

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	3.	100.0	24.2	29.3
TOTAL	3.	100.0	24.2	29.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CLUPEA HARENGUS	5.	25.0	40.3	48.8
THALEICHTHYS PACIFICUS	5.	25.0	40.3	48.8
LEUROGLOSSUS STILBIUS	3.	15.0	24.2	29.3
MERLUCCIUS PRODUCTUS	3.	15.0	24.2	29.3
SCORPAENIDAE(FAMILY)	2.	10.0	16.1	19.5
PSETTICHTHYS MELANOSTICTUS	2.	10.0	16.1	19.5
TOTAL	20.	100.0	161.3	195.2

TABLE:	238	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	78	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.4 C	VOL. FILTERED:	99 M3
POSITION:	48 56.8 N 123 8.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	37 . 34	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	109 M	TIME OF TOW:	0819 HR	ALIQUOT:	
		DEPTH OF TOW:	100 M	S.H.F.:	10.11

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	26.	49.1	262.6	262.9
LEUROGLOSSUS STILBIUS	19.	35.8	191.9	192.1
MERLUCCIUS PRODUCTUS	7.	13.2	70.7	70.8
INOPSETTA ISCHYRA	1.	1.9	10.1	10.1
TOTAL	53.	100.0	535.4	535.8

TABLE:	239	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	79	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	13.5 C	VOL. FILTERED:	128 M3
POSITION:	48 58.2 N 123 14.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	41 . 35	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	144 M	TIME OF TOW:	0909 HR	ALIQUOT:	
		DEPTH OF TOW:	137 M	S.H.F.:	10.71

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	42.	75.0	328.1	449.8
LEUROGLOSSUS STILBIUS	13.	23.2	101.6	139.2
MERLUCCIUS PRODUCTUS	1.	1.8	7.8	10.7
TOTAL	56.	100.0	437.5	599.8

TABLE:	240	WIND DIRECTION:	0 DEG	TOW SPEED:	1 MPS
CRUISE:	SG 81-11	WIND VELOCITY:	0 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	80	WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
DATE:	14/ 6/81	SWELL HEIGHT:	0 M	MESH SIZE:	.351 MM
VESSEL:	CALIGUS	SURFACE TEMP:	12.8 C	VOL. FILTERED:	121 M3
POSITION:	49 1.6 N 123 16.7 W	STD NUMBER:		DISP. VOLUME:	
GRID POSITION:	44 . 33	BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	125 M	TIME OF TOW:	0955 HR	ALIQUOT:	
		DEPTH OF TOW:	122 M	S.H.F.:	10.11

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
THALEICHTHYS PACIFICUS	19.	47.5	157.0	192.1
LEUROGLOSSUS STILBIUS	16.	40.0	132.2	161.8
MERLUCCIUS PRODUCTUS	5.	12.5	41.3	50.5
TOTAL	40.	100.0	330.6	404.4

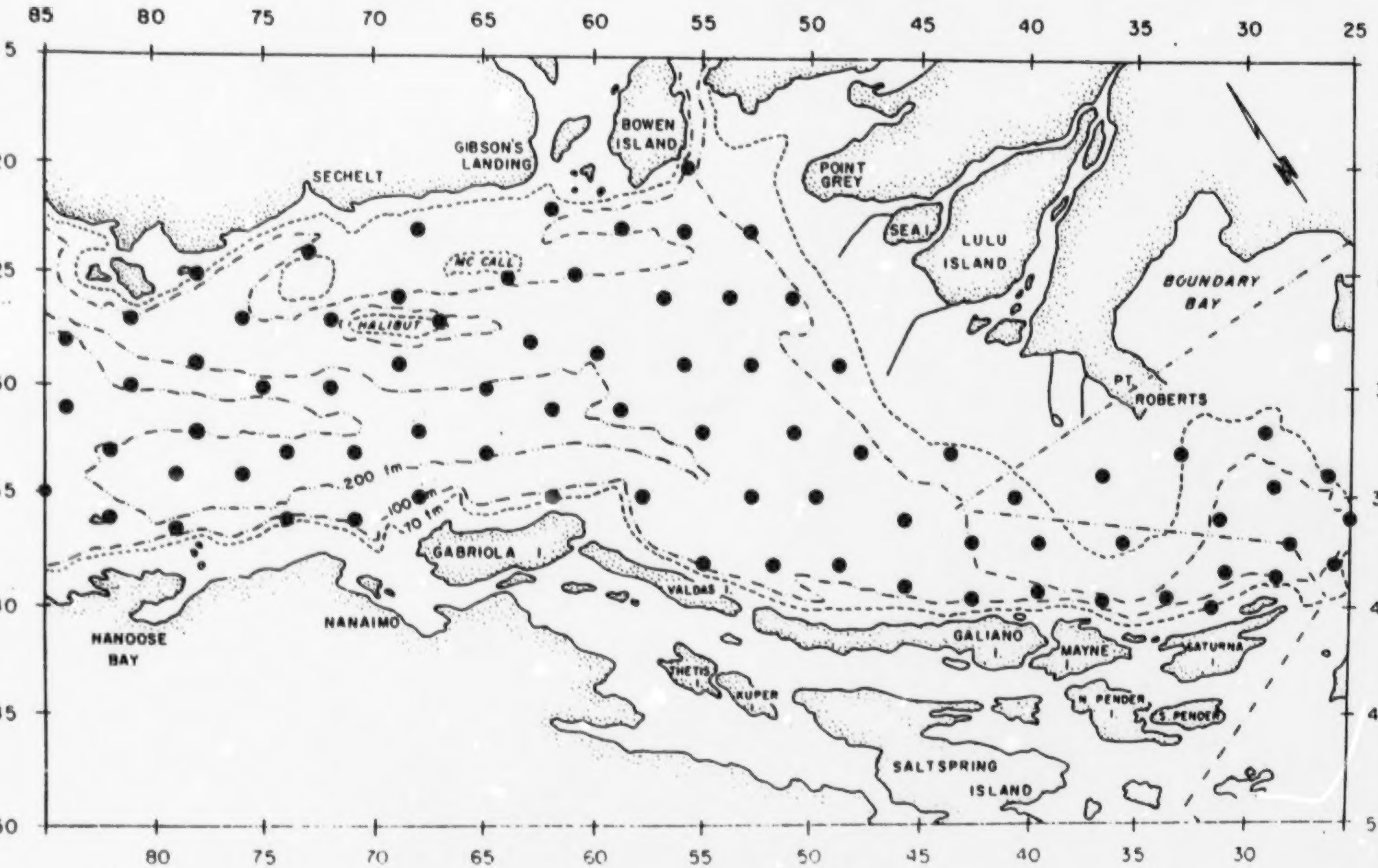

FIGURE 1. Sampling station locations for the 1981 Georgia Strait Ichthyoplankton Survey.